



TRIDONIC

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Control gear, lighting control systems and LED

Catalogue 2010

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Magnetic chokes for fluorescent lamps Page 8

Series EC

Suitable for lamp type

Linear lamps, 230 V 50 Hz

EC 4 – 16 W, baseplate 84.5 mm Page 10

EC 18 – 36 W, baseplate 110 mm Page 11

EC 15 – 40 W, baseplate 151 mm Page 12

EC 18 – 75 W, baseplate 191 mm Page 14

EC 58 – 85 W, baseplate 231 mm Page 16

Compact lamps, 230 V 50 Hz

EC 5 – 18 W, baseplate 84.5 mm Page 17

EC 24 – 26 W, baseplate 110 mm Page 19

EC 18 – 38 W, baseplate 151 mm Page 20

EC 18 – 38 W, baseplate 191 mm Page 21

Linear lamps, 240 V 50 Hz

EC 4 – 16 W, baseplate 84.5 mm Page 22

EC 15 – 40 W, baseplate 151 mm Page 23

EC 18 – 75 W, baseplate 191 mm Page 24

Compact lamps, 240 V 50 Hz

EC 5 – 18 W, baseplate 84.5 mm Page 25

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EC 18 – 38 W, baseplate 151 mm Page 27

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Series ETAWATT

Linear and compact lamps, 230 V 50 Hz

ETAWATT 18 – 58 W Page 29

ETAWATT 18 – 40 W Page 30

Series LEC

Compact lamps, 230 V 50 Hz

LEC 5 – 11 W Page 31

Series UEC

Compact lamps, 230 V 50 Hz

UEC 5 – 26 W Page 32

Compact lamps, 240 V 50 Hz

UEC 5 – 18 W Page 33

Series EC – protection class 2

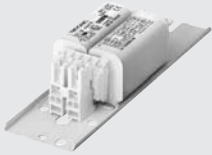
Linear and compact lamps, 230 V 50 Hz

EC 18 – 28 W Page 34

Wiring diagrams and installation examples Page 35



Product overview



EC

Portfolio: T5, T8, T12, TC-D, TC-DD, TC-L, TC-S

Magnetic chokes for linear and compact fluorescent lamps:

- Max. winding temperature $t_w = 130\text{ °C}$

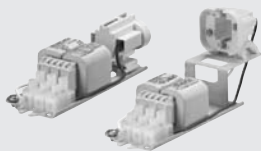


ETAWATT

Portfolio: T8, T12, TC-D, TC-DD, TC-L

Magnetic chokes with reinforced insulation (protection class 2) for linear and compact fluorescent lamps:

- Max. winding temperature $t_w = 130\text{ °C}$
- Plug terminal $0.5\text{--}1.5\text{ mm}^2$ for rigid wires
- Irreversible protection unit
- Switch-off temperature 182 °C



LEC/UEC

Portfolio: TC-S, TC-D

Luminaire insets for compact fluorescent lamps:

- Max. winding temperature $t_w = 130\text{ °C}$
- Screw terminal



EC (SK 2)

Portfolio: T5, T8, TC-D, TC-DD, TC-L, TC-S

Magnetic chokes with reinforced insulation (protection class 2) for linear and compact fluorescent lamps:

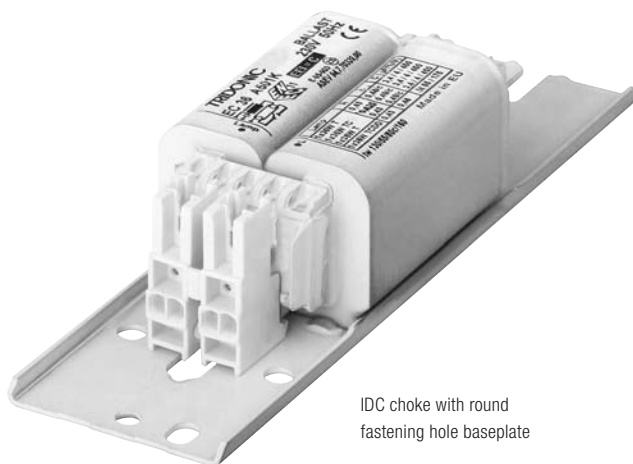
- Max. winding temperature $t_w = 130\text{ °C}$
- Plug terminal $0.5\text{--}1.5\text{ mm}^2$ for rigid wires
- Irreversible protection unit
- Switch-off temperature 150 °C

Standards

Series	Voltage	Design	Type	Page	EN 60921	EN 61347-1	EN 61347-2/8
EC	230 V	Linear lamps	EC 4 – 16 W, baseplate 84.5 mm	Page 10	•	•	•
			EC 18 – 36 W, baseplate 110 mm	Page 11	•	•	•
			EC 15 – 40 W, baseplate 151 mm	Page 12	•	•	•
			EC 18 – 75 W, baseplate 191 mm	Page 14	•	•	•
			EC 58 – 85 W, baseplate 231 mm	Page 16	•	•	•
		Compact lamps	EC 5 – 18 W, baseplate 84.5 mm	Page 17	•	•	•
			EC 24 – 26 W, baseplate 110 mm	Page 19	•	•	•
			EC 18 – 38 W, baseplate 151 mm	Page 20	•	•	•
			EC 18 – 38 W, baseplate 191 mm	Page 21	•	•	•
			240 V	Linear lamps	EC 4 – 16 W, baseplate 84.5 mm	Page 22	•
	EC 15 – 40 W, baseplate 151 mm	Page 23			•	•	•
	EC 18 – 75 W, baseplate 191 mm	Page 24			•	•	•
	Compact lamps	EC 5 – 18 W, baseplate 84.5 mm		Page 25	•	•	•
		EC 24 – 26 W, baseplate 110 mm		Page 26	•	•	•
		EC 18 – 38 W, baseplate 151 mm		Page 27	•	•	•
		EC 18 – 38 W, baseplate 191 mm		Page 28	•	•	•
ETAWATT		230 V		ETAWATT 18 – 58 W	Page 29	•	•
	ETAWATT 18 – 40 W		Page 30	•	•	•	
LEC	230 V		LEC 5 – 11 W	Page 31	•		•
UEC	230 V		UEC 5 – 26 W	Page 32	•		•
	240 V		UEC 5 – 18 W	Page 33	•		•
EC – SK II	230 V		EC 18 – 28 W	Page 34	•		•

Magnetic chokes for fluorescent lamps

EC magnetic chokes for fluorescent lamps, compact fluorescent lamps and the luminaire insets for compact fluorescent lamps UEC are robust and extremely cost-effective solutions with long lives. The wide range of low-loss chokes in energy efficiency classes B2 and B1 from Tridonic covers all the relevant applications and ensures that the lamps are operated as specified.



IDC choke with round
fastening hole baseplate

All EC magnetic chokes for luminaire installation are characterised by minimal energy consumption, compact windings, optimised dimensions and high-quality materials.

In temperature-sensitive applications, the EEI = B1 version offers additional benefits thanks to its lower energy consumption and 15 K lower self-heating.

Optimised for specified lamp operation

EC magnetic chokes ensure that the preheating current, ignition voltage and lamp current all remain within the specified tolerances for optimum operation of fluorescent lamps.

Long lamp life can only be achieved by preheating the electrodes before the ignition voltage is applied to the lamp. The EC units heat to precisely the right temperature because if the preheat current is too low or too high the lamp electrodes will be destroyed and the life of the lamp cut short.

The chokes ensure a sufficiently high ignition voltage after the preheat phase by opening a glow starter or electronic starter. The latter automatically selects the right time to open the starter to reliably ignite the lamp at very high or very low ambient temperatures.

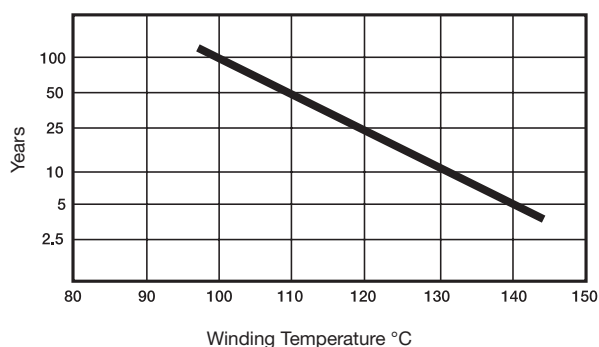
The EC chokes are designed to very narrow tolerances so the impedance perfectly limits the lamp current and maximum luminous flux is achieved.

The low magnetic leakage field – and therefore the very low noise emission – means that the magnetic chokes from Tridonic can be placed near electrical equipment that is sensitive to interference.

Design for long life

Because of their high-quality insulation material, coil core and copper wire, chokes in the EC series from Tridonic achieve a maximum life of approximately 100,000 hours of operation, in other words about ten years of constant use at a winding temperature of 130 °C ($t_w = 130\text{ °C}$).

The winding temperature is the ambient temperature plus the increase in temperature due to the power consumption of the unit. A change in temperature of 10 °C down or up leads to a doubling or halving of the life of the unit.



Constant high quality

Uniform high quality standards are guaranteed by the use of high-grade materials together with manufacturing processes certified to ISO 9001. Fully automatic manufacture also ensures constant reproducible quality. All the chokes are subjected to 100 % final testing and safety testing.

Standards and approval marks

EC magnetic chokes from Tridonic are ENEC certified, carry the CE mark and meet all the relevant European as well as international standards relating to safety, operation and electromagnetic compatibility (EMC).

Lamp matrix

Which control gear for which lamp?

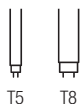
The latest lamp matrix can be downloaded from the internet at www.tridonic.com, menu "Technical Information", submenu "Lamp matrix"

Technical Information

The latest technical information can be downloaded from the internet: www.tridonic.com, menu "Technical Information", submenu "Data sheets"

Personal enquiries

A form for personal enquiries is available on the internet at www.tridonic.com, menu "Contact", submenu "Enquiry"



EC 4 – 16 W, baseplate 84.5 mm
Linear fluorescent lamps, 230 V

→ For product data sheet go to www.tridonic.com,
or available on request

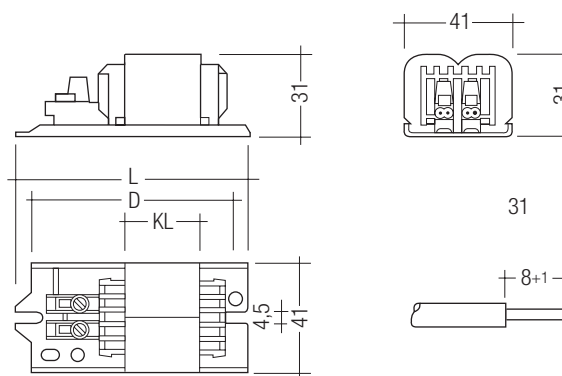
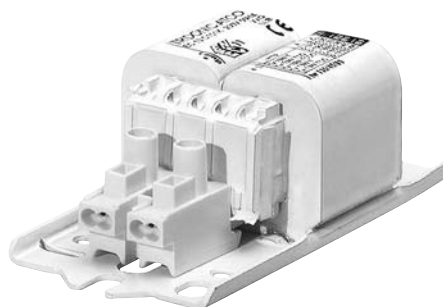
Technical data

Length L	84.5 mm
Hole spacing D	74 – 80 mm
Max. winding temperature t_w	130 °C
Plug terminal	0.5 – 1.5 mm ² for rigid wires



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Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B1		
0.3 kg	EC 13 B27 230/50 027A084	22116351
Energy Efficiency Index EEI = B2		
0.3 kg	EC 8 C101K 230/50 027A084	22148945
0.3 kg	EC 13 C101K 230/50 027A084	20821676
0.3 kg	EC 16 C101K 230/50 027A084	20887799

Packaging: 5 pieces strapped, 2200 pieces/pallet

Specific technical data

Lamp wattage	Lamp length	Lamp diameter	Rated lamp current	Type	Core length CL	ΔT	λ	Compensation, parallel ($\cos \phi > 0.9$)		
								Capacitor $\pm 10\%$ 250 V	Mains current	
Energy Efficiency Index EEI = B1										
1 x 10 W	470 mm	26 mm	0.170 A	EC 13 B27	27 mm	40 K	0.35	2 μ F	0.07 A	
1 x 13 W	517 mm	16 mm	0.165 A	EC 13 B27	27 mm	35 K	0.46	2 μ F	0.08 A	
2 x 8 W	288 mm	16 mm	0.145 A	EC 13 B27	27 mm	30 K	0.55	2 μ F	0.09 A	
Energy Efficiency Index EEI = B2										
1 x 8 W	288 mm	16 mm	0.145 A	EC 8 C101K	27 mm	45 K	0.35	2 μ F	0.06 A	
1 x 4 W	136 mm	16 mm	0.170 A	EC 8 C101K	27 mm	50 K	0.25	2 μ F	0.04 A	
1 x 6 W	212 mm	16 mm	0.160 A	EC 8 C101K	27 mm	45 K	0.30	2 μ F	0.05 A	
2 x 6 W	212 mm	16 mm	0.160 A	EC 8 C101K	27 mm	40 K	0.44	2 μ F	0.05 A	
2 x 4 W	136 mm	16 mm	0.170 A	EC 8 C101K	27 mm	40 K	0.34	2 μ F	0.05 A	
1 x 10 W	470 mm	26 mm	0.170 A	EC 13 C101K	27 mm	45 K	0.37	2 μ F	0.07 A	
1 x 13 W	517 mm	16 mm	0.165 A	EC 13 C101K	27 mm	45 K	0.45	2 μ F	0.08 A	
2 x 8 W	288 mm	16 mm	0.145 A	EC 13 C101K	27 mm	35 K	0.60	2 μ F	0.09 A	
1 x 16 W	720 mm	26 mm	0.200 A	EC 16 C101K	27 mm	50 K	0.48	2 μ F	0.09 A	

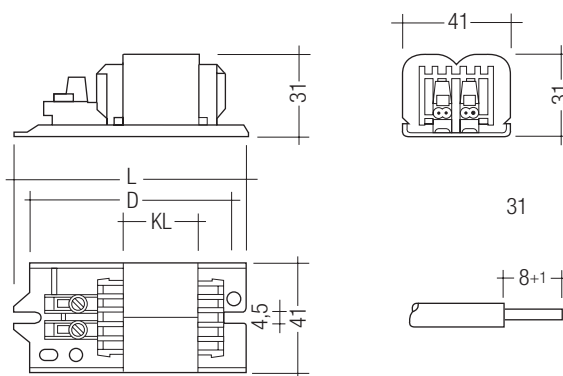
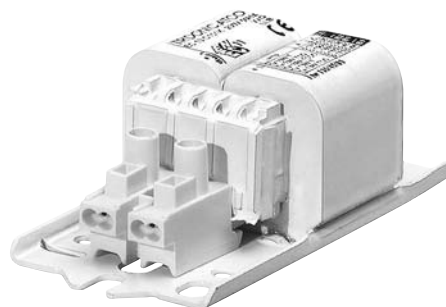


EC 18 – 36 W, baseplate 110 mm
Linear fluorescent lamps, 230 V

→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

Length L	110 mm
Hole spacing D	97 – 105 mm
Max. winding temperature tw	130 °C
Plug terminal	0.5 – 1.5 mm ² for rigid wires



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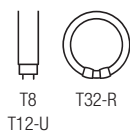
Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B2		
0.5 kg	EC 18 LC111K 230/50 054A110	22148943
0.5 kg	EC 36 LC111K 230/50 054A110	22116601

Packaging: 5 pieces strapped, 1400 pieces/pallet

Specific technical data

Lamp wattage	Lamp length	Lamp diameter	Rated lamp current	Type	Core length CL	Δ T	λ	Compensation, parallel (cos φ > 0.9)		Compensation, serial
								Capacitor ± 10 % 250 V	Mains current	Capacitor ± 4 %
Energy Efficiency Index EEI = B2										
1 x 18 W	590 mm	26 mm	0.37 A	EC 18 LC111K	54 mm	55 K	0.32	4.5 µF	0.13 A	2,7 µF / 480 V
1 x 23 W	970 mm	26 mm	0.29 A	EC 18 LC111K	54 mm	45 K	0.40	3.5 µF	0.12 A	2,4 µF / 450 V
1 x 36 W	1200 mm	26 mm	0.43 A	EC 36 LC111K	54 mm	55 K	0.46	4.5 µF	0.22 A	3,4 µF / 450 V
1 x 38 W	1047 mm	26 mm	0.43 A	EC 36 LC111K	54 mm	55 K	0.49	4.5 µF	0.23 A	3,4 µF / 450 V



EC 15 – 40 W, baseplate 151 mm
Linear fluorescent lamps, 230 V

Product description

- Suitable for automatic luminaire wiring
 - Approved for BJB and ALF automatic wiring equipment
- For product data sheet go to www.tridonic.com,
or available on request

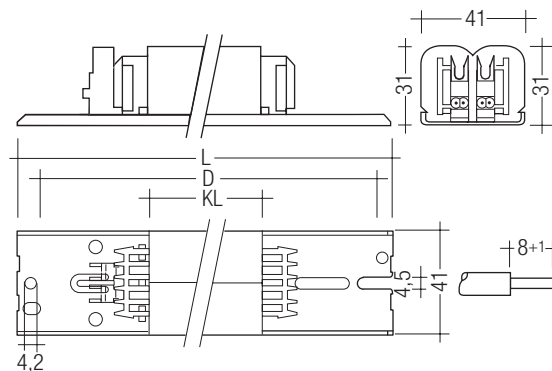
Technical data

Length L	151 mm
Hole spacing D	110 – 144 mm
Max. winding temperature t_w	130 °C
ConCut (insulation displacement connection)	0.5 – 1.5 mm ²



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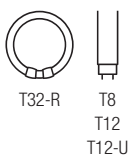
Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B1		
0.55 kg	EC 30 B501K 230/50 054A151	22148754
Energy Efficiency Index EEI = B2		
0.50 kg	EC 15 C501K 230/50 050A151	22148747
0.50 kg	EC 18 C501K 230/50 050A151	22175069
0.55 kg	EC 18 LC501K 230/50 054A151	22115859
0.50 kg	EC 30 C501K 230/50 050A151	22148755
0.51 kg	EC 36 C501K 230/50 050A151	22175058
0.55 kg	EC 36 LC501K 230/50 054A151	22115862
0.43 kg	EC 2x18 OC501K 230/50 040A151	22175112

Packaging: 5 pieces strapped, 1400 pieces/pallet

Specific technical data

Lamp wattage	Lamp length	Lamp diameter	Rated lamp current	Type	Core length CL	ΔT	λ	Compensation, parallel ($\cos \phi > 0.9$)		Compensation, serial
								Capacitor $\pm 10\%$ 250 V	Mains current	Capacitor $\pm 4\%$
Energy Efficiency Index EEI = B1										
1 x 30 W	895 mm	26 mm	0.365 A	EC 30 B501K	54 mm	45 K	0.44	4.5 μ F	0.17 A	–
2 x 15 W	438 mm	26 mm	0.310 A	EC 30 B501K	54 mm	50 K	0.44	4.5 μ F	0.18 A	–
Energy Efficiency Index EEI = B2										
1 x 15 W	438 mm	26 mm	0.310 A	EC 15 C501K	50 mm	50 K	0.33	4.5 μ F	0.12 A	–
1 x 18 W	590 mm	26 mm	0.370 A	EC 18 C501K	50 mm	55 K	0.33	4.5 μ F	0.13 A	2,7 μ F / 480 V
1 x 18 W	590 mm	26 mm	0.370 A	EC 18 LC501K	54 mm	55 K	0.32	4.5 μ F	0.13 A	2,7 μ F / 480 V
1 x 23 W	970 mm	26 mm	0.290 A	EC 18 LC501K	54 mm	45 K	0.40	3.5 μ F	0.12 A	2,4 μ F / 450 V
1 x 30 W	895 mm	26 mm	0.365 A	EC 30 C501K	50 mm	60 K	0.47	4.5 μ F	0.17 A	–
2 x 15 W	438 mm	26 mm	0.310 A	EC 30 C501K	50 mm	50 K	0.49	4.5 μ F	0.18 A	–
1 x 36 W	1200 mm	26 mm	0.430 A	EC 36 C501K	50 mm	50 K	0.47	4.5 μ F	0.22 A	3,4 μ F / 450 V
2 x 18 W	590 mm	26 mm	0.370 A	EC 36 C501K	50 mm	50 K	0.50	4.5 μ F	0.22 A	–
1 x 36 W	1200 mm	26 mm	0.430 A	EC 36 LC501K	54 mm	55 K	0.46	4.5 μ F	0.22 A	3,4 μ F / 450 V
1 x 38 W	1047 mm	26 mm	0.430 A	EC 36 LC501K	54 mm	55 K	0.49	4.5 μ F	0.23 A	3,4 μ F / 450 V
1 x U40 W	607 mm	38 mm	0.430 A	EC 36 LC501K	54 mm	55 K	0.51	4.5 μ F	0.24 A	–
1 x ϕ 40 W	409 mm	30 mm	0.415 A	EC 36 LC501K	54 mm	55 K	0.51	4.5 μ F	0.24 A	–
2 x 18 W	590 mm	26 mm	0.370 A	EC 36 LC501K	54 mm	50 K	0.52	4.5 μ F	0.22 A	3,4 μ F / 450 V
2 x 18 W	590 mm	26 mm	0.370 A	EC 2x18 OC501K	40 mm	55 K	0.52	4.5 μ F	0.22 A	–



EC 18 – 75 W, baseplate 191 mm
Linear fluorescent lamps, 230 V

Product description

- Suitable for automatic luminaire wiring
 - Approved for BJB and ALF automatic wiring equipment
- For product data sheet go to www.tridonic.com,
or available on request

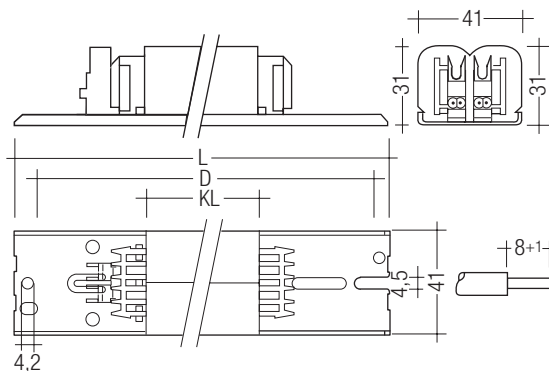
Technical data

Length L	191 mm
Hole spacing D	150 – 184 mm
Max. winding temperature t_w	130 °C
ConCut (insulation displacement connection)	0.5 – 1.5 mm ²



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Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B1		
0.850 kg	EC 18 B501K 230/50 090A191	22148749
0.850 kg	EC 36 B501K 230/50 090A191	22148758
Energy Efficiency Index EEI = B2		
0.850 kg	EC 32 C501K 230/50	22149052
1.000 kg	EC 36-1 C501K 230/50 100A191 LOSE	22149284
0.850 kg	EC 58 C501K 230/50 090A191	22115907
0.900 kg	EC 58 LC501K 230/50 100A191	22148638
0.877 kg	EC 70 C501K 230/50 090A191D	22148762
0.952 kg	EC 70 LC501K 230/50 100A191D	22149286

Packaging: 5 pieces strapped, 1000 pieces/pallet

Specific technical data

Lamp wattage	Lamp length	Lamp diameter	Rated lamp current	Type	Core length CL	Δ T	λ	Compensation, parallel (cos φ > 0.9)		Compensation, serial
								Capacitor ± 10 % 250 V	Mains current	Capacitor ± 4 %
Energy Efficiency Index EEI = B1										
1 x 18 W	590 mm	26 mm	0.370 A	EC 18 B501K	90 mm	35 K	0.30	4.5 µF	0.13 A	2,7 µF / 480 V
1 x 23 W	970 mm	26 mm	0.290 A	EC 18 B501K	90 mm	30 K	0.40	3.0 µF	0.14 A	2,4 µF / 450 V
1 x 36 W	1200 mm	26 mm	0.430 A	EC 36 B501K	90 mm	30 K	0.43	4.5 µF	0.22 A	3,4 µF / 450 V
1 x 38 W	1047 mm	26 mm	0.430 A	EC 36 B501K	90 mm	30 K	0.45	4.5 µF	0.22 A	3,4 µF / 450 V
1 x U40 W	607 mm	38 mm	0.430 A	EC 36 B501K	90 mm	30 K	0.43	4.5 µF	0.24 A	3,4 µF / 450 V
1 x φ40 W	409 mm	30 mm	0.415 A	EC 36 B501K	90 mm	30 K	0.43	4.5 µF	0.24 A	3,4 µF / 450 V
2 x 18 W	590 mm	26 mm	0.370 A	EC 36 B501K	90 mm	30 K	0.45	4.5 µF	0.22 A	3,4 µF / 450 V
Energy Efficiency Index EEI = B2										
1 x φ32 W	307 mm	30 mm	0.450 A	EC 32 C501K 230/50	90 mm	35 K	0.40	5.0 µF	0.18 A	3,4 µF / 480 V
1 x 36 W	1200 mm	26 mm	0.430 A	EC 36-1 C501K	100 mm	40 K	0.34	6.0 µF	0.21 A	–
1 x φ40 W	409 mm	30 mm	0.415 A	EC 36-1 C501K	100 mm	40 K	0.34	6.0 µF	0.21 A	–
1 x 58 W	1500 mm	26 mm	0.670 A	EC 58 C501K	90 mm	50 K	0.47	7.0 µF	0.32 A	5,3 µF / 480 V
1 x 58 W	1500 mm	26 mm	0.670 A	EC 58 LC501K	100 mm	45 K	0.47	7.0 µF	0.31 A	5,3 µF / 480 V
1 x 70 W	1800 mm	26 mm	0.700 A	EC 70 C501K	90 mm	45 K	0.52	7.0 µF	0.37 A	–
1 x 75 W	1800 mm	38 mm	0.670 A	EC 70 C501K	90 mm	45 K	0.55	6.0 µF	0.39 A	–
1 x 70 W	1800 mm	26 mm	0.700 A	EC 70 LC501K	100 mm	50 K	0.51	7.0 µF	0.37 A	–
1 x 75 W	1800 mm	38 mm	0.670 A	EC 70 LC501K	100 mm	50 K	0.56	6.0 µF	0.39 A	–



EC 58 – 85 W, baseplate 231 mm
Linear fluorescent lamps, 230 V

→ For product data sheet go to www.tridonic.com,
or available on request

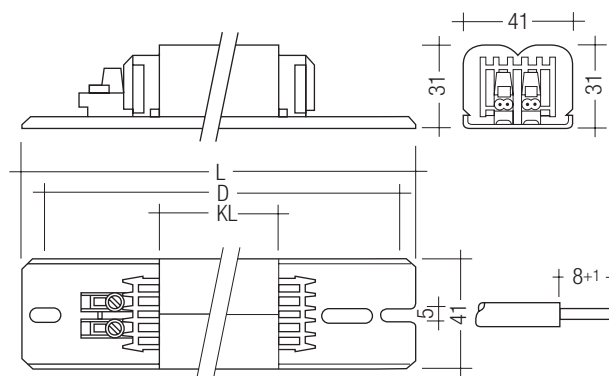
Technical data

Length L	231 mm
Hole spacing D	210 – 224 mm
Max. winding temperature t_w	130 °C
Plug terminal	0.5 – 1.5 mm ² for rigid wires



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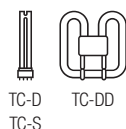
Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B1		
1.3 kg	EC 65 B140 230/50 140A231	22175030
Energy Efficiency Index EEI = B2		
1.3 kg	EC 80/85 C140 230/50 140A231	22175020

Packaging: 5 pieces strapped, 600 pieces/pallet

Specific technical data

Lamp wattage	Lamp length	Lamp diameter	Rated lamp current	Type	Core length CL	Δ T	λ	Compensation, parallel (cos ϕ > 0.9)		Compensation, serial
								Capacitor ± 10 % 250 V	Mains current	Capacitor ± 4 %
Energy Efficiency Index EEI = B1										
1 x 58 W	1500 mm	26 mm	0.67 A	EC 65 B140	140 mm	30 K	0.45	7 μF	0.32 A	5,3 μF / 480 V
1 x U65 W	765 mm	38 mm	0.67 A	EC 65 B140	140 mm	30 K	0.49	7 μF	0.32 A	5,3 μF / 480 V
Energy Efficiency Index EEI = B2										
1 x 80 W	1500 mm	38 mm	0.87 A	EC 80/85 C140	140 mm	45 K	0.46	8 μF	0.46 A	—
1 x 85 W	1800 mm	38 mm	0.80 A	EC 80/85 C140	140 mm	40 K	0.53	8 μF	0.47 A	—

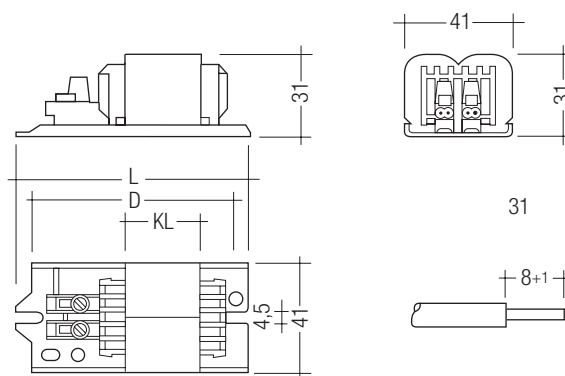
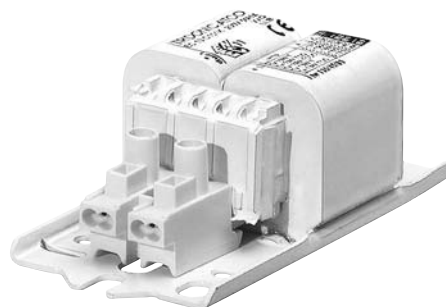


EC 5 – 18 W, baseplate 84.5 mm
Compact fluorescent lamps, 230 V

→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

Length L	84.5 mm
Hole spacing D	74 – 80 mm
Max. winding temperature tw	130 °C
Plug terminal	0.5 – 1.5 mm ² for rigid wires



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Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B1		
0.300 kg	EC 09 B27 230/50 027A084	20821657
0.300 kg	EC 13 B27 230/50 027A084	22116351
0.300 kg	EC 16 B27 230/50 027A084	20821698
0.300 kg	EC 18 B27 230/50 027A084	20821714
Energy Efficiency Index EEI = B2		
0.300 kg	EC 09 C101K 230/50 027A084	22148946
0.300 kg	EC 13 C101K 230/50 027A084	20821676
0.300 kg	EC 16 C101K 230/50 027A084	20887799
0.294 kg	EC 18 TCD C101K 230/50 027A084	20887802

Packaging: 5 pieces strapped, 2200 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Core length CL	ΔT	λ	Compensation, parallel ($\cos \phi > 0.9$)	
							Capacitor $\pm 10\%$ 250 V	Mains current
Energy Efficiency Index EEI = B1								
1 x 5 W	TC-S	0.180 A	EC 09 B27	27 mm	40 K	0.25	2.0 μ F	0.05 A
1 x 7 W	TC-S	0.175 A	EC 09 B27	27 mm	40 K	0.30	2.0 μ F	0.05 A
1 x 9 W	TC-S	0.170 A	EC 09 B27	27 mm	35 K	0.34	2.0 μ F	0.06 A
1 x 11 W	TC-S	0.155 A	EC 09 B27	27 mm	35 K	0.43	2.0 μ F	0.07 A
1 x 10 W	TC-D	0.180 A	EC 13 B27	27 mm	40 K	0.38	2.0 μ F	0.06 A
1 x 13 W	TC-D	0.165 A	EC 13 B27	27 mm	40 K	0.44	2.0 μ F	0.07 A
2 x 7 W	TC-S	0.175 A	EC 13 B27	27 mm	40 K	0.45	2.0 μ F	0.07 A
2 x 9 W	TC-S	0.170 A	EC 13 B27	27 mm	35 K	0.55	1.5 μ F	0.09 A
1 x 16 W	TC-DD	0.195 A	EC 16 B27	27 mm	45 K	0.45	2.0 μ F	0.10 A
1 x 18 W	TC-D	0.220 A	EC 18 B27	27 mm	50 K	0.47	2.0 μ F	0.11 A

Specific technical data

Specific technical data								
Lamp wattage	Lamp type	Rated lamp current	Type	Core length CL	ΔT	λ	Compensation, parallel ($\cos \phi > 0.9$)	
							Capacitor $\pm 10\%$ 250 V	Mains current
Energy Efficiency Index EEI = B2								
1 x 5 W	TC-S	0.180 A	EC 09 C101K	27 mm	50 K	0.28	2.0 μ F	0.05 A
1 x 7 W	TC-S	0.175 A	EC 09 C101K	27 mm	50 K	0.32	2.0 μ F	0.05 A
1 x 9 W	TC-S	0.170 A	EC 09 C101K	27 mm	50 K	0.36	2.0 μ F	0.06 A
1 x 11 W	TC-S	0.155 A	EC 09 C101K	27 mm	40 K	0.47	2.0 μ F	0.07 A
1 x 10 W	TC-D	0.180 A	EC 13 C101K	27 mm	55 K	0.37	2.0 μ F	0.07 A
1 x 13 W	TC-D	0.165 A	EC 13 C101K	27 mm	50 K	0.45	2.0 μ F	0.08 A
1 x 10 W	TC-DD	0.180 A	EC 13 C101K	27 mm	50 K	0.39	2.0 μ F	0.07 A
2 x 7 W	TC-S	0.175 A	EC 13 C101K	27 mm	50 K	0.46	2.0 μ F	0.08 A
2 x 9 W	TC-S	0.170 A	EC 13 C101K	27 mm	45 K	0.57	1.5 μ F	0.08 A
1 x 16 W	TC-DD	0.195 A	EC 16 C101K	27 mm	50 K	0.48	2.0 μ F	0.09 A
1 x 18 W	TC-D	0.220 A	EC 18 TCD C101K	27 mm	55 K	0.49	2.0 μ F	0.11 A

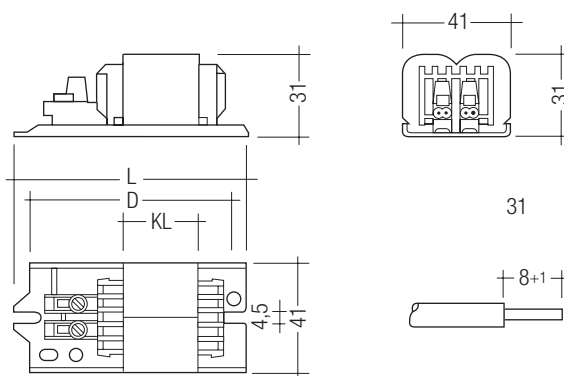
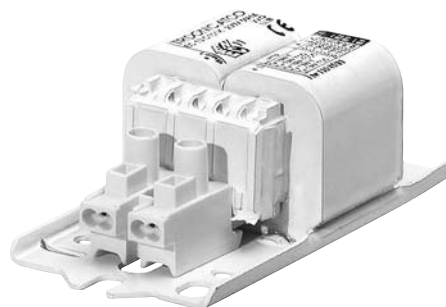


EC 24 – 26 W, baseplate 110 mm
Compact fluorescent lamps, 230 V

→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

Length L	110 mm
Hole spacing D	97 – 105 mm
Max. winding temperature tw	130 °C
ConCut (insulation displacement connection)	0.5 – 1.5 mm ²



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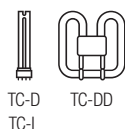
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Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B2		
0.53 kg	EC 26 0C101K 230/50 050A110 IDC	22148858
Packaging: 5 pieces strapped, 1400 pieces/pallet		

Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Core length CL	Δ T	λ	Compensation, parallel (cos φ > 0.9)		Compensation, serial
							Capacitor ± 10 % 250 V	Mains current	Capacitor ± 4 %
Energy Efficiency Index EEI = B2									
1 x 26 W	TC-D	0.325 A	EC 26 0C101K	50 mm	45 K	0.43	3 μF	0.15 A	2,5 μF / 450 V
1 x 24 W	TC-L	0.345 A	EC 26 0C101K	50 mm	50 K	0.40	3 μF	0.15 A	2,5 μF / 450 V



EC 18 – 38 W, baseplate 151 mm

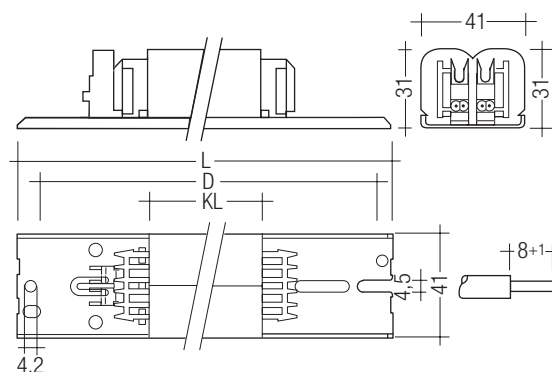
Compact fluorescent lamps, 230 V

Product description

- Suitable for automatic luminaire wiring
 - Approved for BJB and ALF automatic wiring equipment
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Length L	151 mm
Hole spacing D	110 – 144 mm
Max. winding temperature t_w	130 °C
ConCut (insulation displacement connection)	0.5 – 1.5 mm ²



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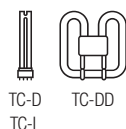
Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B2		
0.55 kg	EC 18 LC501K 230/50 054A151	22115859
0.50 kg	EC 21 C501K 230/50 050A151	22148753
0.55 kg	EC 36 LC501K 230/50 054A151	22115862

Packaging: 5 pieces strapped, 1400 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Core length CL	Δ T	λ	Compensation, parallel (cos φ > 0.9)		Compensation, serial
							Capacitor ± 10 % 250 V	Mains current	Capacitor ± 4 %
Energy Efficiency Index EEI = B2									
1 x 26 W	TC-D	0.325 A	EC 18 LC501K	54 mm	45 K	0.43	3.0 μF	0.15 A	2,5 μF / 450 V
1 x 28 W	TC-DD	0.320 A	EC 18 LC501K	54 mm	45 K	0.49	3.0 μF	0.15 A	–
1 x 18 W	TC-L	0.370 A	EC 18 LC501K	54 mm	55 K	0.33	4.5 μF	0.13 A	2,7 μF / 480 V
1 x 24 W	TC-L	0.345 A	EC 18 LC501K	54 mm	50 K	0.38	3.0 μF	0.15 A	2,6 μF / 450 V
1 x 21 W	TC-DD	0.260 A	EC 21 C501K	50 mm	35 K	0.42	3.0 μF	0.11 A	–
1 x 38 W	TC-DD	0.430 A	EC 36 LC501K	54 mm	50 K	0.49	4.5 μF	0.23 A	–
1 x 36 W	TC-L	0.430 A	EC 36 LC501K	54 mm	55 K	0.44	4.5 μF	0.22 A	3,4 μF / 450 V
2 x 18 W	TC-L	0.370 A	EC 36 LC501K	54 mm	50 K	0.44	4.5 μF	0.20 A	3,4 μF / 450 V



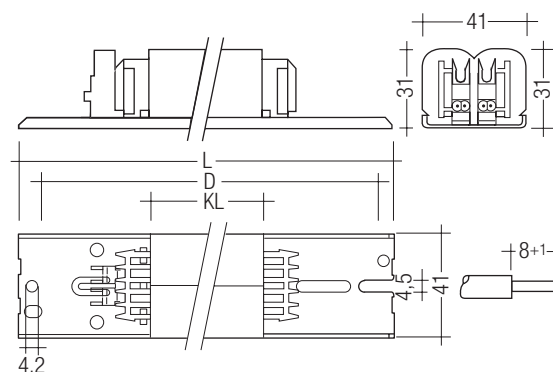
EC 18 – 38 W, baseplate 191 mm
Compact fluorescent lamps, 230 V

Product description

- Suitable for automatic luminaire wiring
 - Approved for BJB and ALF automatic wiring equipment
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Length L	191 mm
Hole spacing D	150 – 184 mm
Max. winding temperature tw	130 °C
ConCut (insulation displacement connection)	0.5 – 1.5 mm ²



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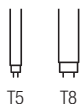
Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B1		
0.85 kg	EC 18 B501K 230/50 090A191	22148749
0.85 kg	EC 36 B501K 230/50 090A191	22148758

Packaging: 5 pieces strapped, 1000 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Core length CL	Δ T	λ	Compensation, parallel (cos φ > 0.9)		Compensation, serial
							Capacitor ± 10 % 250 V	Mains current	Capacitor ± 4 %
Energy Efficiency Index EEI = B1									
1 x 26 W	TC-D	0.325 A	EC 18 B501K	90 mm	30 K	0.43	3.0 μF	0.14 A	2,5 μF / 450 V
1 x 28 W	TC-DD	0.320 A	EC 18 B501K	90 mm	30 K	0.46	3.0 μF	0.15 A	—
1 x 18 W	TC-L	0.370 A	EC 18 B501K	90 mm	40 K	0.29	4.5 μF	0.10 A	2,7 μF / 480 V
1 x 24 W	TC-L	0.345 A	EC 18 B501K	90 mm	30 K	0.39	3.0 μF	0.13 A	2,5 μF / 450 V
1 x 38 W	TC-DD	0.430 A	EC 36 B501K	90 mm	30 K	0.45	4.5 μF	0.22 A	—
1 x 36 W	TC-L	0.430 A	EC 36 B501K	90 mm	30 K	0.44	4.5 μF	0.22 A	3,4 μF / 450 V
2 x 18 W	TC-L	0.370 A	EC 36 B501K	90 mm	30 K	0.46	4.5 μF	0.20 A	3,4 μF / 450 V



EC 4 – 16 W, baseplate 84.5 mm
Linear fluorescent lamps, 240 V

→ For product data sheet go to www.tridonic.com,
or available on request

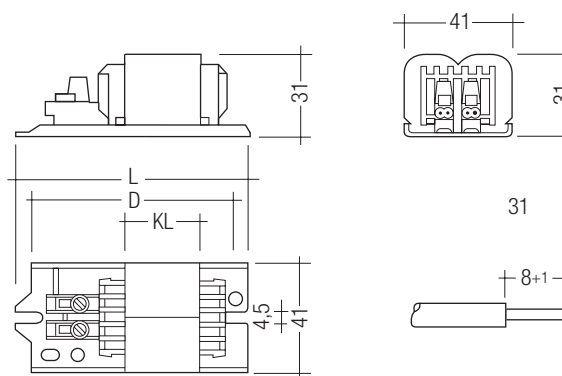
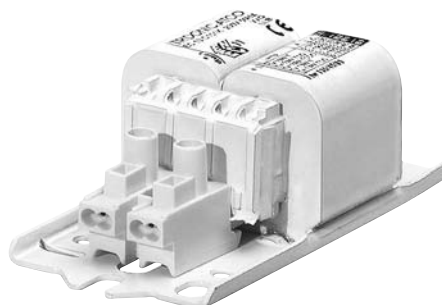
Technical data

Length L	84.5 mm
Hole spacing D	74 – 80 mm
Max. winding temperature tw	130 °C
Plug terminal	0.5 – 1.5 mm ² for rigid wires



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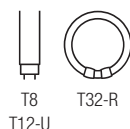
Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B2		
0.30 kg	EC 8 C102K 240/50 027A084	22148939
0.33 kg	EC 13 C102K 240/50 027A084	20821682
0.30 kg	EC 16 C102K 240/50 027A084	22115480

Packaging: 5 pieces strapped, 2200 pieces/pallet

Specific technical data

Lamp wattage	Lamp length	Lamp diameter	Rated lamp current	Type	Core length CL	Δ T	λ	Compensation, parallel (cos φ > 0.9)	
								Capacitor ± 10 % 250 V	Mains current
Energy Efficiency Index EEI = B2									
1 x 4 W	136 mm	16 mm	0.170 A	EC 8 C102K	27 mm	55 K	0.25	2 µF	0.04 A
1 x 6 W	212 mm	16 mm	0.160 A	EC 8 C102K	27 mm	45 K	0.28	2 µF	0.05 A
1 x 8 W	288 mm	16 mm	0.145 A	EC 8 C102K	27 mm	45 K	0.38	2 µF	0.06 A
2 x 6 W	212 mm	16 mm	0.160 A	EC 8 C102K	27 mm	40 K	0.44	2 µF	0.05 A
2 x 4 W	136 mm	16 mm	0.170 A	EC 8 C102K	27 mm	45 K	0.34	2 µF	0.05 A
1 x 10 W	470 mm	26 mm	0.170 A	EC 13 C102K	27 mm	40 K	0.37	2 µF	0.07 A
1 x 13 W	517 mm	16 mm	0.165 A	EC 13 C102K	27 mm	40 K	0.45	2 µF	0.07 A
2 x 8 W	288 mm	16 mm	0.145 A	EC 13 C102K	27 mm	30 K	0.49	2 µF	0.09 A
1 x 16 W	720 mm	26 mm	0.200 A	EC 16 C102K	27 mm	55 K	0.46	2 µF	0.09 A



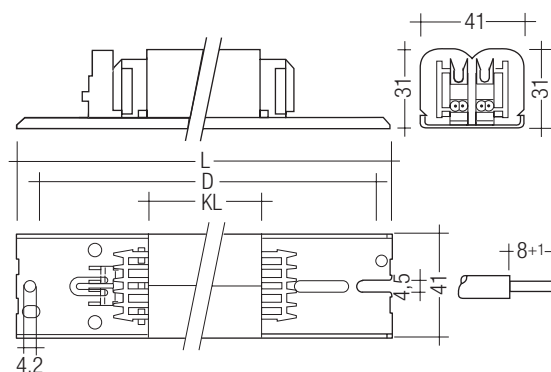
EC 15 – 40 W, baseplate 151 mm
Linear fluorescent lamps, 240 V

Product description

- Suitable for automatic luminaire wiring
 - Approved for BJB and ALF automatic wiring equipment
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Length L	151 mm
Hole spacing D	110 – 144 mm
Max. winding temperature tw	130 °C
ConCut (insulation displacement connection)	0.5 – 1.5 mm ²



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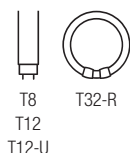
Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B2		
0.50 kg	EC 15 C502K 240/50 050A151	22149234
0.51 kg	EC 18 C502K 240/50 050A151	22175070
0.54 kg	EC 18 LC502K 240/50 054A151	22148708
0.50 kg	EC 30 C502K 240/50 050A151	22149241
0.52 kg	EC 36 C502K 240/50 050A151	22175071
0.55 kg	EC 36 LC502K 240/50 054A151	22148709
0.43 kg	EC 2x18 OC502K 240/50 040A151	22175106

Packaging: 5 pieces strapped, 1400 pieces/pallet

Specific technical data

Lamp wattage	Lamp length	Lamp diameter	Rated lamp current	Type	Core length CL	Δ T	λ	Compensation, parallel (cos φ > 0.9)	
								Capacitor ± 10 % 250 V	Mains current
Energy Efficiency Index EEI = B2									
1 x 15 W	438 mm	26 mm	0.310 A	EC 15 C502K	50 mm	55 K	0.31	4 µF	0.09 A
1 x 18 W	590 mm	26 mm	0.370 A	EC 18 C502K	50 mm	55 K	0.32	4 µF	0.12 A
1 x 18 W	590 mm	26 mm	0.370 A	EC 18 LC502K	54 mm	50 K	0.30	4 µF	0.12 A
1 x 23 W	970 mm	26 mm	0.290 A	EC 18 LC502K	54 mm	35 K	0.40	3 µF	0.12 A
1 x φ22 W	216 mm	28 mm	0.400 A	EC 30 C502K	50 mm	75 K	0.32	4 µF	0.16 A
2 x 15 W	438 mm	26 mm	0.310 A	EC 30 C502K	50 mm	55 K	0.52	4 µF	0.17 A
1 x 36 W	1200 mm	26 mm	0.430 A	EC 36 C502K	50 mm	55 K	0.46	4 µF	0.22 A
2 x 18 W	590 mm	26 mm	0.370 A	EC 36 C502K	50 mm	55 K	0.48	4 µF	0.22 A
1 x 36 W	1200 mm	26 mm	0.430 A	EC 36 LC502K	54 mm	55 K	0.44	4 µF	0.22 A
1 x 38 W	1047 mm	26 mm	0.430 A	EC 36 LC502K	54 mm	55 K	0.47	4 µF	0.22 A
1 x φ40 W	409 mm	30 mm	0.415 A	EC 36 LC502K	54 mm	50 K	0.49	4 µF	0.23 A
1 x U40 W	607 mm	38 mm	0.430 A	EC 36 LC502K	54 mm	55 K	0.49	4 µF	0.22 A
2 x 18 W	590 mm	26 mm	0.370 A	EC 36 LC502K	54 mm	50 K	0.49	4 µF	0.10 A
2 x 18 W	590 mm	26 mm	0.370 A	EC 2x18 OC502K	40 mm	60 K	0.51	4 µF	0.20 A



EC 18 – 75 W, baseplate 191 mm
linear fluorescent lamps, 240 V

Product description

- Suitable for automatic luminaire wiring
 - Approved for BJB and ALF automatic wiring equipment
- For product data sheet go to www.tridonic.com,
or available on request

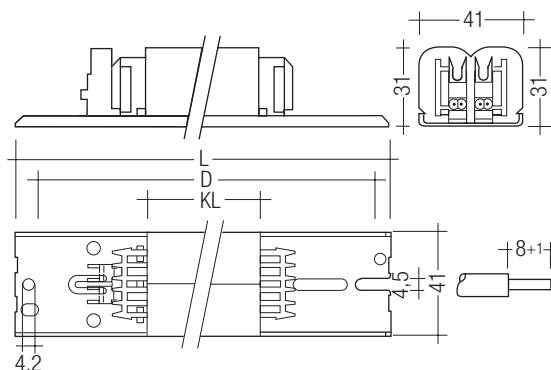
Technical data

Length L	191 mm
Hole spacing D	150 – 184 mm
Max. winding temperature tw	130 °C
ConCut (insulation displacement connection)	0.5 – 1.5 mm ²



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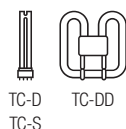
Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B1		
0.850 kg	EC 18 B502K 240/50 090A191	22148765
0.850 kg	EC 36 B502K 240/50 090A191	22148771
0.970 kg	EC 70 B502K 240/50 100A191D	22148772
Energy Efficiency Index EEI = B2		
0.864 kg	EC 58 C502K 240/50 090A191	22149260
0.958 kg	EC 58 LC502K 240/50 100A191	22119165
0.876 kg	EC 70 C502K 240/50 090A191D	22148773

Packaging: 5 pieces strapped, 1000 pieces/pallet

Specific technical data

Lamp wattage	Lamp length	Lamp diameter	Rated lamp current	Type	Core length CL	Δ T	λ	Compensation, parallel (cos φ > 0.9)	
								Capacitor ± 10 % 250 V	Mains current
Energy Efficiency Index EEI = B1									
1 x 18 W	590 mm	26 mm	0.370 A	EC 18 B502K	90 mm	30 K	0.29	4 μF	0.12 A
1 x 23 W	970 mm	26 mm	0.290 A	EC 18 B502K	90 mm	25 K	0.38	3 μF	0.13 A
1 x 36 W	1200 mm	26 mm	0.430 A	EC 36 B502K	90 mm	35 K	0.41	4 μF	0.20 A
1 x 38 W	1047 mm	26 mm	0.430 A	EC 36 B502K	90 mm	35 K	0.44	4 μF	0.21 A
1 x U40 W	607 mm	38 mm	0.430 A	EC 36 B502K	90 mm	35 K	0.45	4 μF	0.22 A
1 x φ40 W	409 mm	30 mm	0.415 A	EC 36 B502K	90 mm	30 K	0.46	4 μF	0.22 A
2 x 18 W	590 mm	26 mm	0.370 A	EC 36 B502K	90 mm	30 K	0.45	4 μF	0.19 A
1 x 70 W	1800 mm	26 mm	0.700 A	EC 70 B502K	100 mm	45 K	0.50	6 μF	0.36 A
1 x 75 W	1800 mm	38 mm	0.670 A	EC 70 B502K	100 mm	45 K	0.56	6 μF	0.38 A
Energy Efficiency Index EEI = B2									
1 x 58 W	1500 mm	26 mm	0.670 A	EC 58 C502K	90 mm	50 K	0.46	6 μF	0.30 A
1 x U65 W	765 mm	38 mm	0.670 A	EC 58 C502K	90 mm	50 K	0.46	6 μF	0.30 A
1 x 58 W	1500 mm	26 mm	0.670 A	EC 58 LC502K	100 mm	45 K	0.46	6 μF	0.30 A
1 x U65 W	765 mm	38 mm	0.670 A	EC 58 LC502K	100 mm	45 K	0.51	6 μF	0.30 A
1 x 70 W	1800 mm	26 mm	0.700 A	EC 70 C502K	90 mm	50 K	0.55	6 μF	0.38 A
1 x 75 W	1800 mm	38 mm	0.670 A	EC 70 C502K	90 mm	45 K	0.51	6 μF	0.38 A

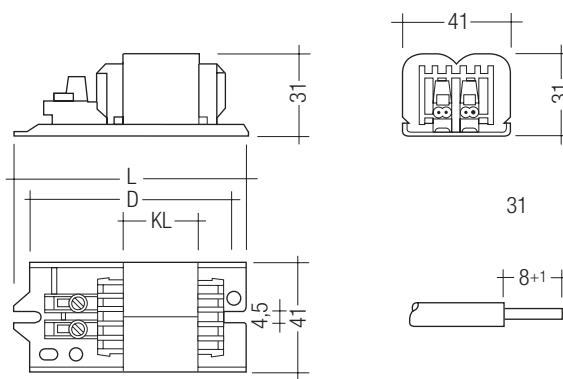


EC 5 – 18 W, baseplate 84.5 mm
Compact fluorescent lamps, 240 V

→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

Length L	84.5 mm
Hole spacing D	74 – 80 mm
Max. winding temperature tw	130 °C
Plug terminal	0.5 – 1.5 mm ² for rigid wires



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Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B1		
0.30 kg	EC 09 B27 240/50 027A084	20821660
0.30 kg	EC 18 B27 240/50 027A084	20821720
Energy Efficiency Index EEI = B2		
0.30 kg	EC 09 C102K 240/50 027A084	22149307
0.33 kg	EC 13 C102K 240/50 027A084	20821682
0.30 kg	EC 16 C102K 240/50 027A084	22115480
0.30 kg	EC 18 TCD C102K 240/50 027A084	22149235

Packaging: 5 pieces strapped, 2200 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Core length CL	Δ T	λ	Compensation, parallel (cos φ > 0.9)	
							Capacitor ± 10 % 250 V	Mains current
Energy Efficiency Index EEI = B1								
1 x 5 W	TC-S	0.180 A	EC 09 B27	27 mm	50 K	0.25	2 µF	0.05 A
1 x 7 W	TC-S	0.175 A	EC 09 B27	27 mm	45 K	0.29	2 µF	0.05 A
1 x 9 W	TC-S	0.170 A	EC 09 B27	27 mm	40 K	0.34	2 µF	0.06 A
1 x 11 W	TC-S	0.155 A	EC 09 B27	27 mm	40 K	0.39	2 µF	0.07 A
1 x 18 W	TC-D	0.220 A	EC 18 B27	27 mm	60 K	0.44	2 µF	0.10 A
Energy Efficiency Index EEI = B2								
1 x 5 W	TC-S	0.180 A	EC 09 C102K	27 mm	60 K	0.28	2 µF	0.05 A
1 x 7 W	TC-S	0.175 A	EC 09 C102K	27 mm	55 K	0.31	2 µF	0.05 A
1 x 9 W	TC-S	0.170 A	EC 09 C102K	27 mm	50 K	0.36	2 µF	0.06 A
1 x 11 W	TC-S	0.155 A	EC 09 C102K	27 mm	40 K	0.44	2 µF	0.07 A
1 x 10 W	TC-D	0.180 A	EC 13 C102K	27 mm	50 K	0.36	2 µF	0.07 A
1 x 13 W	TC-D	0.165 A	EC 13 C102K	27 mm	45 K	0.45	2 µF	0.08 A
1 x 10 W	TC-DD	0.180 A	EC 13 C102K	27 mm	45 K	0.36	2 µF	0.07 A
2 x 7 W	TC-S	0.175 A	EC 13 C102K	27 mm	40 K	0.45	2 µF	0.08 A
2 x 9 W	TC-S	0.170 A	EC 13 C102K	27 mm	40 K	0.52	2 µF	0.08 A
1 x 16 W	TC-DD	0.195 A	EC 16 C102K	27 mm	55 K	0.46	2 µF	0.09 A
1 x 18 W	TC-D	0.220 A	EC 18 TCD C102K	27 mm	55 K	0.46	2 µF	0.10 A



EC 24 – 26 W, baseplate 110 mm
Compact fluorescent lamps, 240 V

→ For product data sheet go to www.tridonic.com,
or available on request

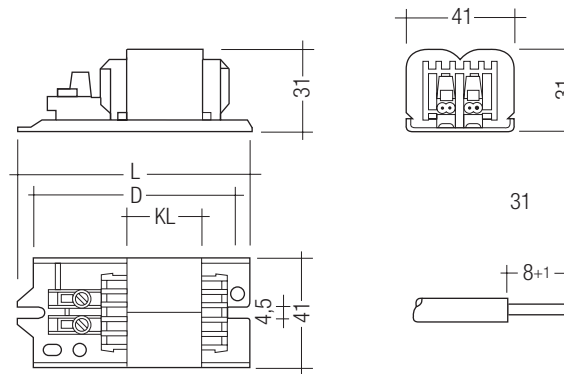
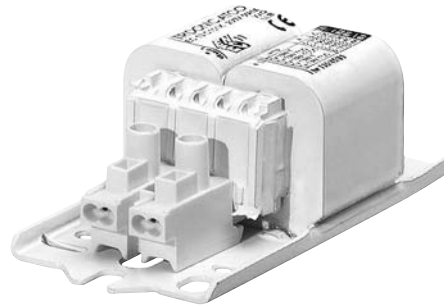
Technical data

Length L	110 mm
Hole spacing D	97 – 105 mm
Max. winding temperature t_w	130 °C
Plug terminal	0.5 – 1.5 mm ² for rigid wires



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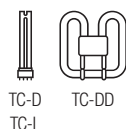


Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B2		
0.53 kg	EC 26 LC102K 240/50 054A110	20889280
Packaging: 5 pieces strapped, 1400 pieces/pallet		

Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Core length CL	ΔT	λ	Compensation, parallel ($\cos \phi > 0.9$)	
							Capacitor $\pm 10\%$ 250 V	Mains current
Energy Efficiency Index EEI = B2								
1 x 26 W	TC-D	0.325 A	EC 26 LC102K	54 mm	50 K	0.42	3.5 μ F	0.14 A
1 x 24 W	TC-L	0.345 A	EC 26 LC102K	54 mm	50 K	0.39	4.0 μ F	0.13 A



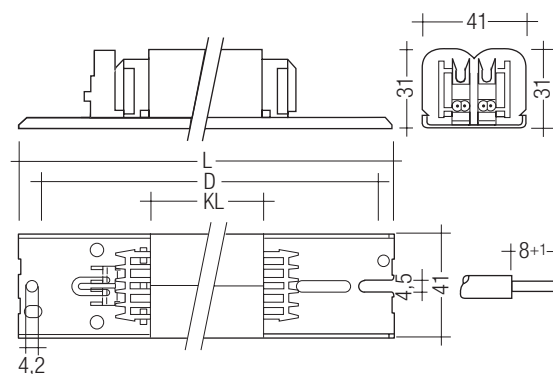
EC 18 – 38 W, baseplate 151 mm
Compact fluorescent lamps, 240 V

Product description

- Suitable for automatic luminaire wiring
 - Approved for BJB and ALF automatic wiring equipment
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Length L	151 mm
Hole spacing D	110 – 144 mm
Max. winding temperature tw	130 °C
Plug terminal	0.5 – 1.5 mm ² for rigid wires



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Wiring diagrams and installation examples, page 35

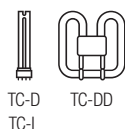
Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B1		
0.50 kg	EC 18 TCD LB502K 240/50 050A151	22148766
0.50 kg	EC 21 B502K 240/50 050A151	22148767
Energy Efficiency Index EEI = B2		
0.54 kg	EC 18 LC502K 240/50 054A151	22148708
0.55 kg	EC 36 LC502K 240/50 054A151	22148709

Packaging: 5 pieces strapped, 1400 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Core length CL	Δ T	λ	Compensation, parallel (cos φ > 0.9)	
							Capacitor ± 10 % 250 V	Mains current
Energy Efficiency Index EEI = B1								
1 x 18 W	TC-D	0.220 A	EC 18 TCD LB502K	50 mm	35 K	0.41	2.0 μF	0.08 A
1 x 21 W	TC-DD	0.260 A	EC 21 B502K	50 mm	35 K	0.41	3.0 μF	0.11 A
Energy Efficiency Index EEI = B2								
1 x 26 W	TC-D	0.325 A	EC 18 LC502K	54 mm	40 K	0.42	3.5 μF	0.13 A
1 x 28 W	TC-DD	0.320 A	EC 18 LC502K	54 mm	40 K	0.46	3.5 μF	0.14 A
1 x 18 W	TC-L	0.370 A	EC 18 LC502K	54 mm	50 K	0.30	4.0 μF	0.11 A
1 x 24 W	TC-L	0.345 A	EC 18 LC502K	54 mm	45 K	0.39	3.5 μF	0.13 A
1 x 38 W	TC-DD	0.430 A	EC 36 LC502K	54 mm	55 K	0.46	4.0 μF	0.22 A
1 x 36 W	TC-L	0.430 A	EC 36 LC502K	54 mm	55 K	0.44	4.0 μF	0.22 A
2 x 18 W	TC-L	0.370 A	EC 36 LC502K	54 mm	50 K	0.49	4.0 μF	0.21 A



EC 18 – 38 W, baseplate 191 mm
compact fluorescent lamps, 240 V

Product description

- Suitable for automatic luminaire wiring
 - Approved for BJB and ALF automatic wiring equipment
- For product data sheet go to www.tridonic.com,
or available on request

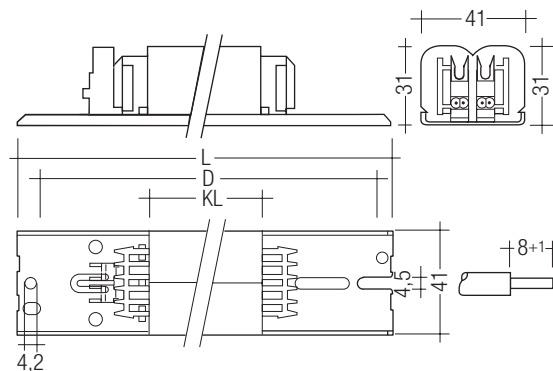
Technical data

Length L	191 mm
Hole spacing D	150 – 184 mm
Max. winding temperature t_w	130 °C
ConCut (insulation displacement connection)	0.5 – 1.5 mm ²



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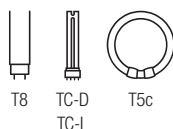
Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B1		
0.85 kg	EC 18 B502K 240/50 090A191	22148765
0.85 kg	EC 36 B502K 240/50 090A191	22148771

Packaging: 5 pieces strapped, 1000 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Core length CL	Δ T	λ	Compensation, parallel (cos φ > 0.9)	
							Capacitor ± 10 % 250 V	Mains current
Energy Efficiency Index EEI = B1								
1 x 26 W	TC-D	0.325 A	EC 18 B502K	90 mm	30 K	0.40	3.5 μF	0.13 A
1 x 28 W	TC-DD	0.320 A	EC 18 B502K	90 mm	25 K	0.44	3.5 μF	0.14 A
1 x 18 W	TC-L	0.370 A	EC 18 B502K	90 mm	30 K	0.29	4.0 μF	0.10 A
1 x 24 W	TC-L	0.345 A	EC 18 B502K	90 mm	30 K	0.38	3.5 μF	0.13 A
1 x 38 W	TC-DD	0.430 A	EC 36 B502K	90 mm	30 K	0.42	4.0 μF	0.19 A
1 x 36 W	TC-L	0.430 A	EC 36 B502K	90 mm	35 K	0.42	4.0 μF	0.18 A



ETAWATT 18 – 58 W

Linear and compact fluorescent lamps, 230 V

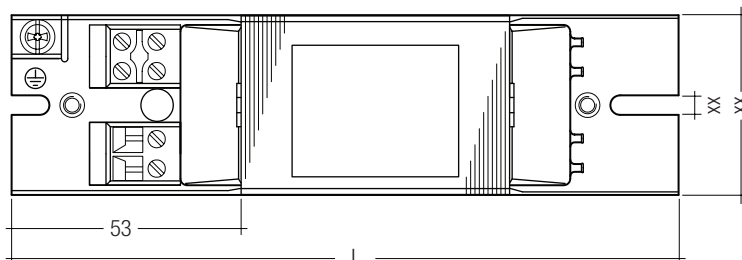
→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

Max. winding temperature tw 130 °C



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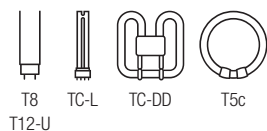
Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B2		
0.760 kg	ETAWATT 18 NG301 IND 230V/50	86454136
0.760 kg	ETAWATT 30 NG301 IND 230V/50	86454142
0.748 kg	ETAWATT 36 NG301 IND 230V/50	86454158
1.200 kg	ETAWATT 58 NG301 IND 230V/50	86454161

Packaging: 20 pieces/carton, 800 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Δ T	Rated lamp current	λ	Compensation, parallel (cos φ > 0.9)		Compensation, serial
								Capacitor ± 10 % 250 V	Mains current	Capacitor ± 4 %
Energy Efficiency Index EEI = B2										
1 x 18 W	T8	ETAWATT 18 NG301	170 mm	150 – 159 mm	45 K	0.370 A	0.32	4.2 µF	0.13 A	2,7 µF / 480 V
1 x 18 W	TC-L	ETAWATT 18 NG301	170 mm	150 – 159 mm	45 K	0.370 A	0.31	4.2 µF	0.13 A	2,7 µF / 450 V
1 x 23 W	T8	ETAWATT 18 NG301	170 mm	150 – 159 mm	45 K	0.290 A	0.42	4.2 µF	0.13 A	2,4 µF / 450 V
1 x 24 W	TC-L	ETAWATT 18 NG301	170 mm	150 – 159 mm	45 K	0.345 A	0.40	4.2 µF	0.13 A	2,7 µF / 450 V
1 x 26 W	TC-D	ETAWATT 18 NG301	170 mm	150 – 159 mm	45 K	0.325 A	0.43	4.2 µF	0.13 A	2,5 µF / 450 V
1 x 30 W	T8	ETAWATT 30 NG301	170 mm	150 – 159 mm	50 K	0.365 A	0.48	3.6 µF	0.18 A	2,9 µF / 450 V
1 x 22 W	T5-R	ETAWATT 30 NG301	170 mm	150 – 159 mm	50 K	0.400 A	0.33	3.6 µF	0.18 A	2,9 µF / 450 V
2 x 15 W	T8	ETAWATT 30 NG301	170 mm	150 – 159 mm	50 K	0.310 A	0.52	3.6 µF	0.18 A	–
1 x 36 W	T8	ETAWATT 36 NG301	170 mm	150 – 159 mm	50 K	0.430 A	0.47	4.3 µF	0.21 A	–
1 x 36 W	TC-L	ETAWATT 36 NG301	170 mm	150 – 159 mm	50 K	0.430 A	0.45	4.3 µF	0.21 A	–
1 x 38 W	T8	ETAWATT 36 NG301	170 mm	150 – 159 mm	50 K	0.430 A	0.48	4.3 µF	0.21 A	–
2 x 18 W	T8	ETAWATT 36 NG301	170 mm	150 – 159 mm	50 K	0.370 A	0.49	4.3 µF	0.21 A	–
1 x 58 W	T8	ETAWATT 58 NG301	235 mm	220 – 229 mm	50 K	0.670 A	0.48	4.3 µF	0.33 A	5,3 µF / 450 V



ETAWATT 18 – 40 W

Linear and compact fluorescent lamps, 230 V

Product description

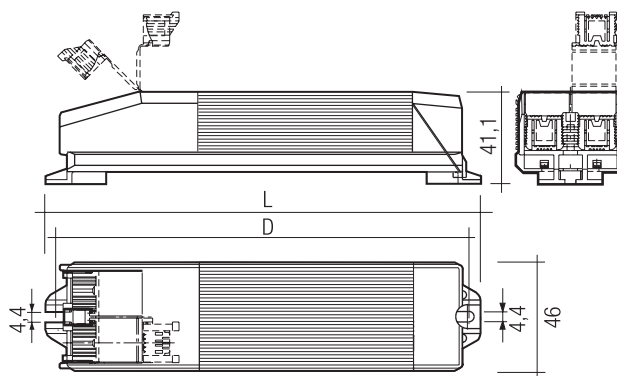
- Magnetic chokes of protection class II with reversible protection unit
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Max. winding temperature t_w	130 °C
Plug terminal	0.5 – 1.5 mm ² for rigid wires
Trigger value, thermal protection	182 °C



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Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B2		
0.18 kg	ETAWATT 36 C201B 230/50 TMDD 182,5	86457918
Packaging: 10 pieces/carton, 600 pieces/pallet		

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	ΔT	Rated lamp current	λ	Compensation, parallel ($\cos \phi > 0.9$)		Compensation, serial
								Capacitor $\pm 10\% 250 V$	Mains current	Capacitor $\pm 4\%$
Energy Efficiency Index EEI = B2										
1 x 36 W	T8	ETAWATT 36 C201B	182.5 mm	155 – 172.5 mm	60 K	0.430 A	0.47	4.5 μF	0.20 A	3,4 μF / 450 V
1 x 38 W	T8	ETAWATT 36 C201B	182.5 mm	155 – 172.5 mm	60 K	0.430 A	0.49	4.5 μF	0.21 A	3,4 μF / 450 V
1 x 40 W	T12-U	ETAWATT 36 C201B	182.5 mm	155 – 172.5 mm	60 K	0.430 A	0.50	4.5 μF	0.22 A	3,4 μF / 450 V
2 x 18 W	T8	ETAWATT 36 C201B	182.5 mm	155 – 172.5 mm	60 K	0.370 A	0.51	4.0 μF	0.20 A	–
1 x 36 W	TC-L	ETAWATT 36 C201B	182.5 mm	155 – 172.5 mm	60 K	0.430 A	0.46	4.5 μF	0.20 A	3,4 μF / 450 V
1 x 38 W	TC-DD	ETAWATT 36 C201B	182.5 mm	155 – 172.5 mm	60 K	0.430 A	0.48	4.5 μF	0.21 A	–
1 x 40 W	T5-R	ETAWATT 36 C201B	182.5 mm	155 – 172.5 mm	55 K	0.415 A	0.51	4.0 μF	0.95 A	3,4 μF / 450 V
2 x 18 W	TC-L	ETAWATT 36 C201B	182.5 mm	155 – 172.5 mm	50 K	0.370 A	0.51	4.0 μF	0.20 A	3,4 μF / 450 V

RoHS



LEC 5 – 11 W

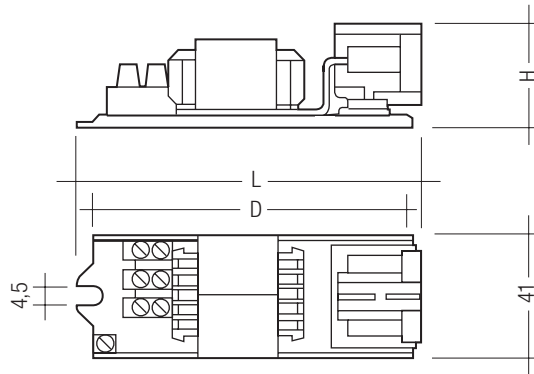
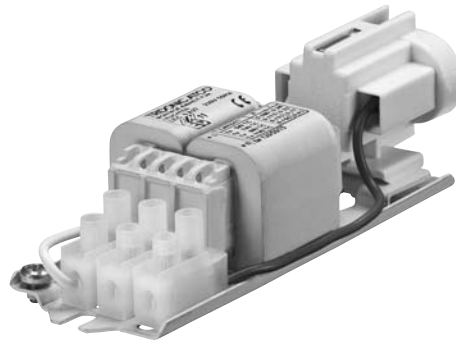
Compact fluorescent lamps, 230 V

Product description

- Magnetic chokes with integrated lampholder
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Length L	114 mm
Hole spacing D	100 – 102 mm
Max. winding temperature t_w	130 °C



→

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Wiring diagrams and installation examples, page 35

Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = C		
0.35 kg	LEC 09 A27 230/50 027B110	20295798
Packaging: 42 pieces/carton, 1344 pieces/pallet		

Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Core length CL	ΔT	λ	Compensation, parallel ($\cos \phi > 0.9$)	
							Capacitor $\pm 10\%$ 250 V	Mains current
Energy Efficiency Index EEI = C								
1 x 5 W	TC-S	0.180 A	LEC 09 A27	27 mm	50 K	0.28	2 μ F	0.05 A
1 x 7 W	TC-S	0.175 A	LEC 09 A27	27 mm	50 K	0.32	2 μ F	0.05 A
1 x 9 W	TC-S	0.170 A	LEC 09 A27	27 mm	45 K	0.37	2 μ F	0.06 A
1 x 11 W	TC-S	0.155 A	LEC 09 A27	27 mm	40 K	0.45	2 μ F	0.07 A

RoHS

Applies to UEC13, UEC 18, UEC26:



TC-D
TC-S

UEC 5 – 26 W

Compact fluorescent lamps, 230 V

Product description

- Magnetic chokes with integrated lampholder G23 for compact fluorescent lamps with integrated starter
- For product data sheet go to www.tridonic.com, or available on request

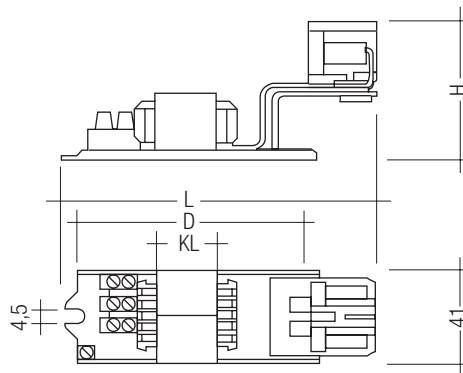
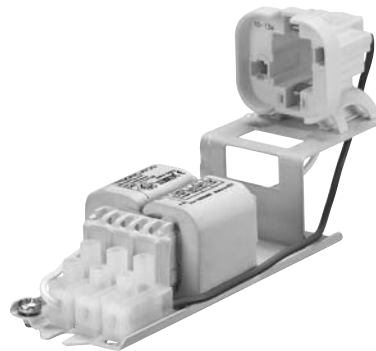
Technical data

Max. winding temperature t_w 130 °C



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Wiring diagrams and installation examples, page 35



Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B2		
0.35 kg	UEC 13 C311K 230/50 027B110	22179287
0.35 kg	UEC 18 TCD C311K 230/50 027B110	22179294
0.55 kg	UEC 26 C301K 230/50 050B151	22179304
Energy Efficiency Index EEI = C		
0.35 kg	UEC 09 A27 230/50 027B110	20295757
Packaging UEC 09: 27 pieces/carton, 864 pieces/pallet		
Packaging UEC 13 and UEC 18: 24 pieces/carton, 768 pieces/pallet		
Packaging UEC 26: 18 pieces/carton, 576 pieces/pallet		

Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Length L	Hole spacing D	Core length CL	ΔT	λ	Compensation, parallel ($\cos \phi > 0.9$)	
									Capacitor $\pm 10\%$ 250 V	Mains current
Energy Efficiency Index EEI = C										
1 x 5 W	TC-S	0.180 A	UEC 09 A27	138 mm	92 – 102 mm	27 mm	50 K	0.28	2 μ F	0.05 A
1 x 7 W	TC-S	0.175 A	UEC 09 A27	138 mm	92 – 102 mm	27 mm	50 K	0.32	2 μ F	0.05 A
1 x 9 W	TC-S	0.170 A	UEC 09 A27	138 mm	92 – 102 mm	27 mm	45 K	0.36	2 μ F	0.06 A
1 x 11 W	TC-S	0.155 A	UEC 09 A27	138 mm	92 – 102 mm	27 mm	40 K	0.47	2 μ F	0.07 A
Energy Efficiency Index EEI = B2										
1 x 10 W	TC-D	0.180 A	UEC 13 C311K	138 mm	92 – 102 mm	27 mm	55 K	0.37	2 μ F	0.07 A
1 x 13 W	TC-D	0.165 A	UEC 13 C311K	138 mm	92 – 102 mm	27 mm	55 K	0.45	2 μ F	0.08 A
1 x 18 W	TC-D	0.220 A	UEC 18 TCD C311K	138 mm	92 – 102 mm	27 mm	55 K	0.47	2 μ F	0.11 A
1 x 26 W	TC-D	0.325 A	UEC 26 C301K	151 mm	130 – 144 mm	50 mm	45 K	0.47	3 μ F	0.14 A

RoHS

Applies to UEC 13, UEC 18:



UEC 5 – 18 W

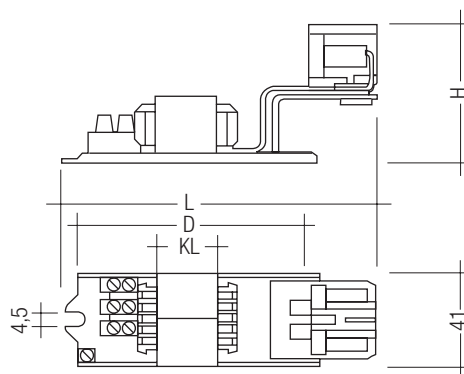
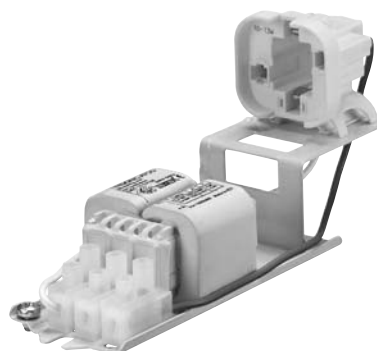
Compact fluorescent lamps, 240 V

Product description

- Magnetic chokes with integrated lampholder G23 for compact fluorescent lamps with integrated starter
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Length L	138 mm
Hole spacing D	92 – 102 mm
Max. winding temperature t_w	130 °C



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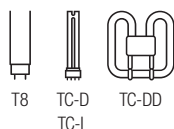
Wiring diagrams and installation examples, page 35

Ordering data

Weight	Type	Article number
Energy Efficiency Index EEI = B2		
0.35 kg	UEC 13 C312K 240/50 027B110	22179289
0.35 kg	UEC 18 TCD C312K 240/50 027B110	22179296
Energy Efficiency Index EEI = C		
0.35 kg	UEC 09 A27 240/50 027B110	20295760
Packaging UEC 09: 27 pieces/carton, 864 pieces/pallet		
Packaging UEC 13 and UEC 18: 24 pieces/carton, 768 pieces/pallet		
Packaging UEC 26: 18 pieces/carton, 576 pieces/pallet		

Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Core length CL	ΔT	λ	Compensation, parallel ($\cos \phi > 0.9$)	
								Capacitor $\pm 10\%$ 250 V
Energy Efficiency Index EEI = B2								Mains current
1 x 10 W	TC-D	0.180 A	UEC 13 C312K	27 mm	50 K	0.34	2 μ F	0.07 A
1 x 13 W	TC-D	0.165 A	UEC 13 C312K	27 mm	50 K	0.45	2 μ F	0.08 A
1 x 18 W	TC-D	0.220 A	UEC 18 TCD C312K	27 mm	50 K	0.46	2 μ F	0.10 A
Energy Efficiency Index EEI = C								
1 x 5 W	TC-S	0.180 A	UEC 09 A27	27 mm	60 K	0.28	2 μ F	0.05 A
1 x 7 W	TC-S	0.175 A	UEC 09 A27	27 mm	55 K	0.31	2 μ F	0.05 A
1 x 9 W	TC-S	0.170 A	UEC 09 A27	27 mm	50 K	0.36	2 μ F	0.06 A
1 x 11 W	TC-S	0.155 A	UEC 09 A27	27 mm	45 K	0.44	2 μ F	0.07 A



EC 18 – 28 W

Linear and compact fluorescent lamps, 230 V

Product description

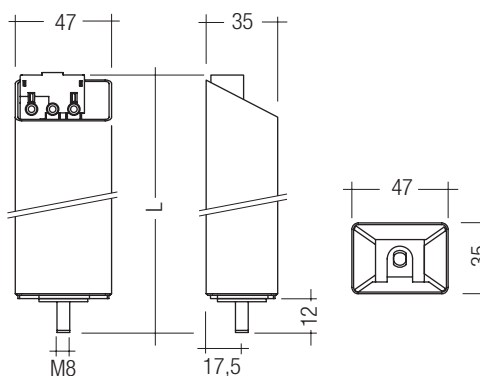
- Magnetic choke
 - Encapsulated for protection class II applications
 - Double insulated
 - Irreversible thermal cutout
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Length L	113 mm
Max. winding temperature tw	130 °C
Plug terminal	0.5 – 1.5 mm ² for rigid wires
Trigger value, thermal protection	150 °C



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Ordering data

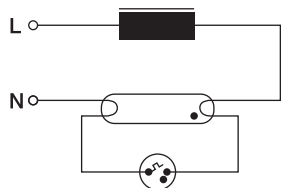
Weight	Type	Article number
Energy Efficiency Index EEI = B2		
0.55 kg	EC 18 LC201B 230/50 ZIMP113	22149220
Packaging: 26 pieces/carton, 936 pieces/pallet		

Specific technical data

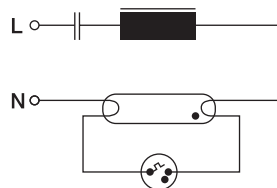
Lamp wattage	Lamp type	Rated lamp current	Type	Δ T	λ	Compensation, parallel (cos φ > 0.9)		Compensation, serial
						Capacitor ± 10 % 250 V	Mains current	Capacitor ± 4 %
Energy Efficiency Index EEI = B2								
1 x 18 W	T8	0.370 A	EC 18 LC201B	65 K	0.32	4.5 μF	0.11 A	2,7 μF / 480 V
1 x 23 W	T8	0.290 A	EC 18 LC201B	50 K	0.42	3.5 μF	0.14 A	2,4 μF / 450 V
1 x 26 W	TC-D	0.325 A	EC 18 LC201B	55 K	0.43	3.5 μF	0.14 A	2,5 μF / 450 V
1 x 28 W	TC-DD	0.320 A	EC 18 LC201B	55 K	0.48	3.5 μF	0.15 A	—
1 x 18 W	TC-L	0.370 A	EC 18 LC201B	65 K	0.31	4.5 μF	0.11 A	2,7 μF / 480 V
1 x 24 W	TC-L	0.345 A	EC 18 LC201B	60 K	0.40	4.0 μF	0.14 A	2,6 μF / 480 V

1. Linear lamps

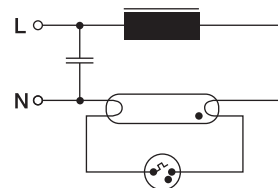
Single lamp uncompensated



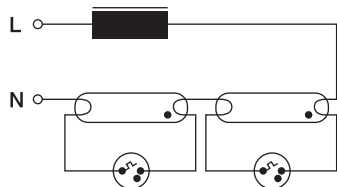
Single lamp series compensated



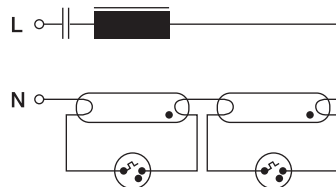
Single lamp parallel compensated



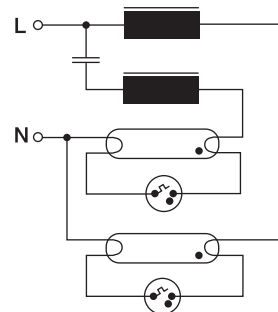
Twin series lamps uncompensated



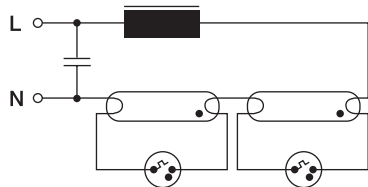
Twin series lamps series compensated



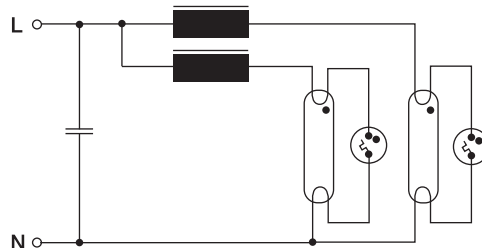
Twin lamp lead / lag



Twin series lamps parallel compensated

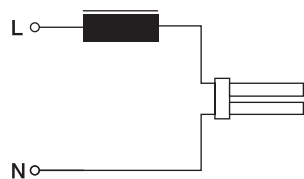


Twin lamp parallel compensated; 2 x value of parallel capacitor (single circuit), 2x18 W T8 = 8 µF (250 V)

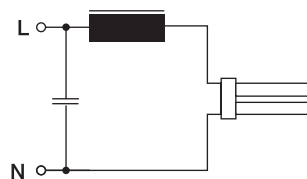


2. Compact lamps

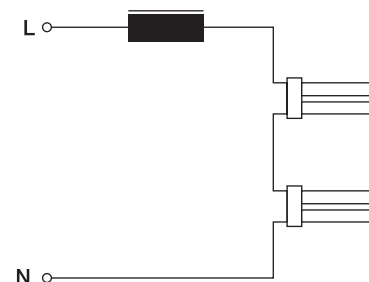
Single 2-pin lamp uncompensated



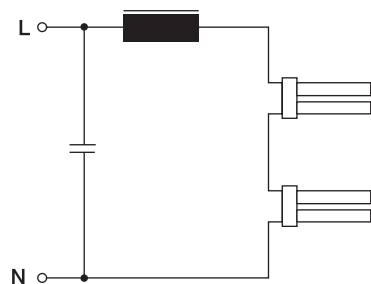
Single 2-pin lamp parallel compensated



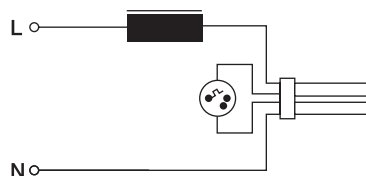
Twin series 2-pin lamps uncompensated



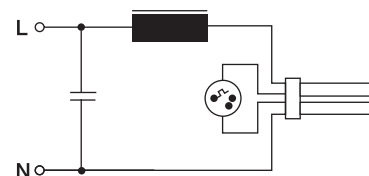
Twin series 2-pin lamps parallel compensated



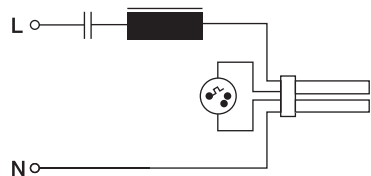
Single 4-pin lamp uncompensated



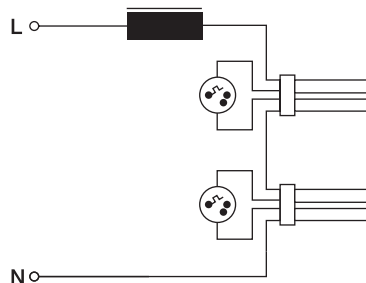
Single 4-pin lamp parallel compensated



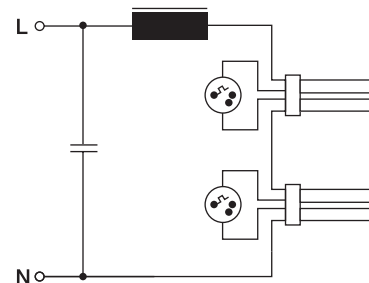
Single 4-pin lamp series compensated



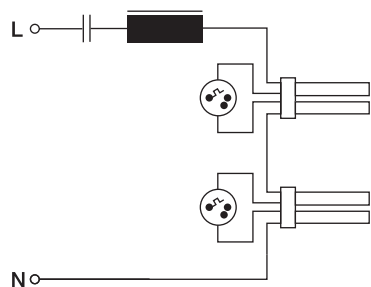
Twin series 4-pin lamps uncompensated



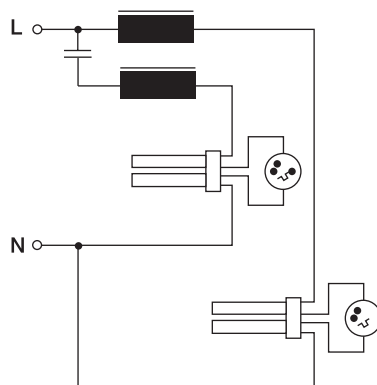
Twin series 4-pin lamps parallel compensated



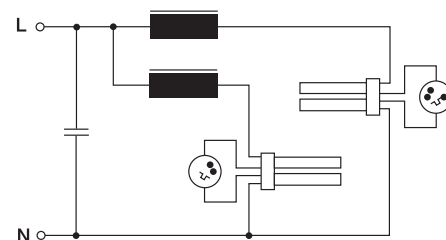
Twin series 4-pin lamps series compensated



Twin 4-pin lamps lead/lag



Twin 4-pin lamps parallel compensated



Overview	Page 43							
Product overview	Page 43							
Product / function matrix	Page 44							
Standards	Page 44							
Lamp matrix	Page 46							
Product information	Page 47							
Fixed-output electronic ballasts for fluorescent lamps	Page 47							
Multi-lamp ECG								
T5 / T8 linear lamps, compact lamps (CFL) and T5c circular fluorescent lamp		Suitable for lamp type						
PC T5 PRO-M Ip 14–80 W	Page 52	<table> <tr> <th>T5</th> <th>T8</th> <th>CFL</th> </tr> <tr> <td>•</td> <td>•</td> <td>•</td> </tr> </table>	T5	T8	CFL	•	•	•
T5	T8	CFL						
•	•	•						
Professional ECG								
T5 linear lamps high efficiency and TC-L compact lamps (CFL)								
PC T5 PRO Ip 14–35 W	Page 54	<table> <tr> <th>T5</th> <th>T8</th> <th>CFL</th> </tr> <tr> <td>•</td> <td></td> <td>•</td> </tr> </table>	T5	T8	CFL	•		•
T5	T8	CFL						
•		•						
T5 linear lamps high output, T8 linear lamps and TC-L compact lamps (CFL)								
PC T5 PRO Ip 15–80 W	Page 55	<table> <tr> <th>T5</th> <th>T8</th> <th>CFL</th> </tr> <tr> <td>•</td> <td>•</td> <td>•</td> </tr> </table>	T5	T8	CFL	•	•	•
T5	T8	CFL						
•	•	•						
T8 linear lamps								
PC T8 PRO 18–70 W	Page 57	<table> <tr> <th>T5</th> <th>T8</th> <th>CFL</th> </tr> <tr> <td></td> <td>•</td> <td></td> </tr> </table>	T5	T8	CFL		•	
T5	T8	CFL						
	•							
T8 linear lamps and TC-L compact lamps (CFL)								
PC TCL PRO 18–55 W	Page 59	<table> <tr> <th>T5</th> <th>T8</th> <th>CFL</th> </tr> <tr> <td></td> <td>•</td> <td>•</td> </tr> </table>	T5	T8	CFL		•	•
T5	T8	CFL						
	•	•						
TC-SEL, TC-DEL, TC-TEL, T5c, TC-L, TC-F compact lamps (CFL)								
PC PRO 9–70 W	Page 60	<table> <tr> <th>T5</th> <th>T8</th> <th>CFL</th> </tr> <tr> <td></td> <td></td> <td>•</td> </tr> </table>	T5	T8	CFL			•
T5	T8	CFL						
		•						
TC-DD compact lamps (CFL)								
PC DD PRO sc 28–55 W	Page 62	<table> <tr> <th>T5</th> <th>T8</th> <th>CFL</th> </tr> <tr> <td></td> <td></td> <td>•</td> </tr> </table>	T5	T8	CFL			•
T5	T8	CFL						
		•						
Separate electronic ballast for surface-mounted application								
TC-DEL, TC-TEL compact lamps (CFL)								
PC PRO sr 18–42 W	Page 63	<table> <tr> <th>T5</th> <th>T8</th> <th>CFL</th> </tr> <tr> <td></td> <td></td> <td>•</td> </tr> </table>	T5	T8	CFL			•
T5	T8	CFL						
		•						
Standard ECG								
T8 linear lamps								
PC T8 TOP 18–58 W	Page 64	<table> <tr> <th>T5</th> <th>T8</th> <th>CFL</th> </tr> <tr> <td></td> <td>•</td> <td></td> </tr> </table>	T5	T8	CFL		•	
T5	T8	CFL						
	•							
ECG for use in industrial environments								
T5 linear lamps								
PC T5 INDUSTRY 49–80 W	Page 65	<table> <tr> <th>T5</th> <th>T8</th> <th>CFL</th> </tr> <tr> <td>•</td> <td></td> <td></td> </tr> </table>	T5	T8	CFL	•		
T5	T8	CFL						
•								
T8 linear lamps								
PC T8 INDUSTRY 36–58 W	Page 66	<table> <tr> <th>T5</th> <th>T8</th> <th>CFL</th> </tr> <tr> <td></td> <td>•</td> <td></td> </tr> </table>	T5	T8	CFL		•	
T5	T8	CFL						
	•							

Compact ECG for system wattages less than 25 W

T5 / T8 linear lamps, compact lamps (CFL)
and T5c circular fluorescent lamp

		Suitable for lamp type		
		T5	T8	CFL
PC BASIC 4 – 28 W	Page 67	•		•
PC BASIC sl 4 – 28 W	Page 68	•	•	•
T5 linear lamps				
PC BASIC sl 8 W	Page 70	•		

Accessories

Installation

IP 44 KIT	Page 71
PC compact gear box	Page 72
Mounting bracket	Page 73

Wiring diagrams and installation examples Page 74

Product overview



PC PRO-M

Portfolio: T5, T8, TC-F, TC-L, TC-T, TC-D, T5c

Professional ECG for multi-lamp operation:

- Integrated lamp detection
- New freedom in lighting planning
- Optimised warehouse management
- Adaptation of the lighting system to changing needs
- Intelligent Voltage Guard



PC PRO linear

Portfolio: T5, T8, TC-L

Professional ECG for linear fluorescent lamps:

- Wide temperature range from -25°C to $+60^{\circ}\text{C}$
- EEI = A2, power-loss-optimised
- THD < 10 %
- IDC terminal for automatic wiring
- Intelligent Voltage Guard



PC PRO compact

Portfolio: TC-S, TC-D, TC-T, TC-F, TC-L, T5c

Professional ECG for compact fluorescent lamps:

- Wide temperature range from -25°C to $+60^{\circ}\text{C}$
- EEI = A2, power-loss-optimised
- THD < 10 %
- Universal lamp operation
- Intelligent Voltage Guard



PC TOP

Portfolio: T8

Standard ECG for linear fluorescent lamps:

- Temperature range from -20°C to $+50^{\circ}\text{C}$
- EEI = A2
- THD < 15 %
- Plug terminal suitable for automatic wiring



PC PRO sr

Portfolio: TC-D, TC-T

Professional ECG for separate applications:

- No tools required for installing
- Integrated strain relief
- Through-wiring and 3x ground terminal
- EEI = A2, power-loss-optimised
- Intelligent Voltage Guard



PC INDUSTRY

Portfolio: T5, T8

Highly robust ECG for use in industrial environments:

- Increased temperature range from -30°C to $+70^{\circ}\text{C}$
- Increased protection against transients up to 4 kV
- Increased life of 100,000 h
- Increased reliability: 0.1 % failure rate per 1,000 hours
- Intelligent Voltage Guard



PC BASIC

Portfolio: T5, T8, TC-S, TC-D, TC-T, TC-L, T5c

Versatile ECG for system wattages less than 25 W:

- Universal lamp operation
- Some models available without casing
- Small casing dimensions
- Ideal for use in shelf and furniture lighting



Accessories

Accessories for special applications:

- IP 44 KIT casing
- PC compact gear box
- Mounting bracket

Standards – Product/function matrix

Series	Type	Page	EN 55015	EN 50082-2	EN 60598	EN 60929	EN 61000-3-2	EN 61347-2-3	EN 61347-2-4	EN 61547	EN 60068-2-29	EN 60068-2-30	EN 60068-2-64	acc. to EN 50172
PC PRO-M	PC T5 PRO-M Ip 14–80 W	Page 52	•			•	•	•	•	•	•	•	•	•
PC PRO (linear)	PC T5 PRO Ip 14–35 W	Page 54	•			•	•	•	•	•	•	•	•	•
	PC T8 PRO 18–70 W	Page 57	•			•	•	•	•	•	•	•	•	•
	PC TCL PRO 18–55 W	Page 59	•			•	•	•	•	•	•	•	•	•
PC PRO (compact)	PC PRO 1/9–70 W	Page 60	•			•	•	•	•	•	•	•	•	•
	PC PRO 2/9–42 W	Page 60	•			•	•	•	•	•	•	•	•	•
	PC DD PRO sc 28–55 W	Page 62	•			•	•	•	•	•	•	•	•	•
PC PRO sr	PC PRO sr 18–42 W	Page 63	•			•	•	•	•	•	•	•		•
PC TOP	PC T8 TOP 18–58 W	Page 64	•			•	•	•	•	•				
PC INDUSTRY	PC T5 INDUSTRY 49–80 W	Page 65	•	•	•	•	•	•	•	•	•	•	•	•
	PC T8 INDUSTRY 36–58 W	Page 66	•	•	•	•	•	•	•	•	•	•	•	•
PC BASIC	PC BASIC 4–28 W	Page 67	•				•	•	•	•				
	PC BASIC sl 4–28 W	Page 68	•				•	•	•	•				
	PC BASIC sl 8 W	Page 70	•			•	•	•	•	•				•

	Energy efficiency index A2	Energy efficiency index A3	Hot restart	Intelligent Voltage Guard (IVG)	Safety shutdown of faulty lamps	Undervoltage protection (automatic disconnection)	Type of protection IP 20	IDC terminal for automatic wiring	No tools required for installing	Side fixing option	For use in emergency lighting systems (acc. to EN 50172)	Multi-lamp capability (lamp detection)	Device for luminaire installation	Separate device for surface-mounted applications	Automatic restart on relamping	Extra-wide temperature range from -30 to +70 °C	Extremely compact dimensions	Protection against transients up to 4 kV	Wide temperature range up to 60 °C	Increased lamp life up to 100,000 hours	Life of at least 50,000 hours	8-year guarantee (project registration required)	8-year guarantee (project registration required)
	•		•	•	•	•	•	•		•	•	•	•		•				•		•		•
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Lamp matrix

Lamps	Lamp power	PC T5 PRO-M Ip					PC BASIC			PC BASIC sl						
		1/14 – 35/24/39	1/14 – 35/49/54	1/14 – 35/49/80	2/14 – 28/24/39	2/14 – 35/49/80	4 – 13 W	5 – 16 W	18 W	8 W	4 – 13 W	5 – 16 W	18 W	14 – 21 W	18 – 24 W	26 W
T5 linear lamps	4 W						•				•					
	6 W						•				•					
	8 W						•			•	•					
	13 W						•				•					
T5HE linear lamps	14 W	•	•	•	•	•								•		
	21 W	•	•	•	•	•								•		
	28 W	•	•	•	•	•										
	35 W	•	•	•		•										
T5HO linear lamps	24 W	•			•										•	
	39 W	•			•											
	49 W		•	•		•										
	54 W		•			•										
	80 W			•												
T8 linear lamps	18 W	•			•										•	
	30 W	•														
	36 W	•			•											
	58 W		•			•										
T5c circular fluorescent lamp	22 W	•			•										•	
	40 W	•			•											
	55 W			•												
TC-SEL compact lamps	5 W							•				•				
	7 W							•				•				
	9 W							•				•				
	11 W							•				•				
TC-DEL compact lamps	10 W							•				•				
	13 W							•				•				
	18 W								•				•			
	26 W															•
TC-TEL compact lamps	13 W							•				•				
	18 W								•				•			
	26 W															•
TC-DD compact lamps	10 W						•				•					
	16 W							•				•				
	28 W															•
TC-L compact lamps	18 W	•			•										•	
	24 W	•			•										•	
	36 W	•			•											
	40 W	•			•											
	55 W			•												
	80 W			•												
TC-F compact lamps	18 W	•			•										•	
	24 W	•			•										•	
	36 W	•			•											

Fixed-output electronic ballasts for fluorescent lamps

Electronic ballasts from Tridonic are noted for their excellent economy, exceptional level of lighting comfort and high reliability.



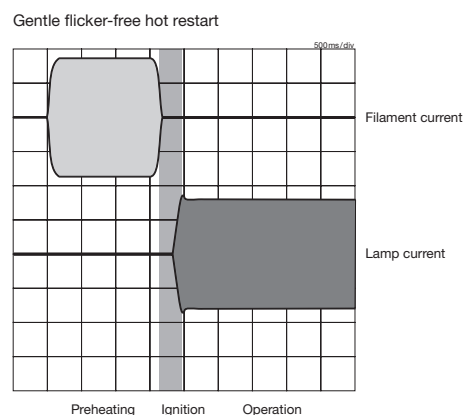
The wide range of products covers all applications with T5, T8 and compact fluorescent lamps. The common denominator of all the members of this family is their high energy efficiency. The properties of the PC PRO-M, PC PRO, PC TOP, PC INDUSTRY and PC BASIC product groups have been optimised for specific applications and requirements.

Electronic control gear (ECG) operates lamps with high-frequency voltages and currents (over 40 kHz) – a frequency range that does not interfere with infra-red remote controls, for example, which operate at 36 kHz. Since the ignition voltage is generated internally there is no need for additional starters. With Tridonic ballasts there is also no need for a capacitor to compensate for reactive power. The reason for this is the excellent power factor of typically > 0.98 . This simplifies and reduces the amount of wiring compared with conventional ballasts.

Impressive economy

High-frequency operation of fluorescent lamps leads to an increase in luminous flux of around 10 %, or in other words for the same luminous flux around 10 % less power is consumed. Another argument for the high economy of ECG is their low power loss. It is less than 10 % of lamp output. The low thermal output of the devices helps reduce the luminaire temperature and increase the efficiency of the luminaire. Overall, a luminaire system with ECG therefore consumes up to 25 % less energy than a system with conventional ballasts.

ECG provide the basis for reliable operation with preheating of the lamp electrodes in accordance with the manufacturer's specifications, a sufficiently high ignition voltage and limitation of the lamp discharge current. Hot restarts under defined conditions protect the lamps and increase their life significantly compared with conventional starter operation. Even with frequent switching cycles the life of the ECG is greater than that of the lamps. Luminaires operated on innovative control gear from Tridonic can therefore be used in conjunction with presence sensors and ambient light sensors. These devices significantly reduce the energy consumption of professional lighting systems and therefore further contribute to energy efficiency.



Hot restarts reduce the costs for replacing the lamps and for maintaining the lighting system thanks to longer maintenance intervals.

High-quality components, intelligent circuit design and extensive testing under rated conditions give ballasts from Tridonic their special character. Their average life is 50,000 hours at a reliability of more than 90 %. This means that for every 1,000 hours of operation the average failure rate is only 0.2 %. With their high energy efficiency and the long life of the devices and the lamps, electronic ballasts from Tridonic guarantee impressive economy for lighting systems.

Lighting comfort and quality

High-frequency operation of fluorescent lamps results in a much more constant gas discharge than is the case with conventional control gear. This has the advantage that there is no cathode flickering even at low temperatures and no stroboscopic effects. This in turn improves the quality of light and makes the lighting system more comfortable on the eye.

The xitec chip (ASIC) specially developed for Tridonic represents another boost to quality. Irrespective of any fluctuations in mains voltage between 198 and 254 V, this chip ensures a constant luminous flux and optimises lamp management by igniting the lamps reliably with no annoying flickering or noise. The lamps are automatically shut down if they develop a fault or when they come to the end of their lives – without flickering and without wasting energy on futile attempts to restart them. Replacement lamps are automatically started.

Emergency lighting systems

Electronic PC ballasts can be operated on AC or DC voltage. This means there is no need for a separate emergency lighting system.

Optimised design

ECG weigh less than electromagnetic ballasts. This is useful in terms of luminaire design because everything can be geared around a lower weight. Material resources are protected to promote sustainability and less energy is used on all the logistics routes.

Constant high quality

The consistently high quality and reliability of the Tridonic PC ballasts are guaranteed by the use of high-grade materials together with manufacturing processes certified to ISO 9001. Fully automatic manufacture ensures constant reproducible quality. All the ballasts are subjected to 100 % final testing and safety testing.

Standards and approval marks

PC electronic ballasts from Tridonic are ENEC certified, carry the CE mark and meet all the relevant European as well as international standards relating to safety, operation and electromagnetic compatibility (EMC).

Lamp matrix

Which control gear for which lamp?

The latest lamp matrix can be downloaded from the internet at www.tridonic.com, menu “Technical Information”, submenu “Lamp matrix”

Technical Information

The latest technical information can be downloaded from the internet: www.tridonic.com, menu “Technical Information”, submenu “Data sheets”

Personal enquiries

A form for personal enquiries is available on the internet at www.tridonic.com, menu “Contact”, submenu “Enquiry”

PC PRO-M for multi-lamp operation

PC PRO ballasts from Tridonic have always been impressive for their exceptional functionality. They provide the basis for perfect lamp and lighting management. The “SMART-Heating concept”, for example, provides disconnectable electrode preheating for fluorescent lamps to ensure they operate in accordance with specifications and at the same time with optimum energy efficiency and constant luminous flux. And, of course, faulty lamps are automatically disconnected, lamps are automatically restarted and DC emergency lighting operation takes place in accordance with EN 50172 (formerly VDE 0108). Preventive monitoring features such as “Intelligent Voltage Guard” (IVG) ensure that the lamps are operated in accordance with specifications.

Building on this solid platform, the PC PRO-M versions now give you the option of operating different T5, T8 and compact fluorescent lamps with one ballast. Like many other intelligent functions, multi-lamp management is based on x!tec, the processor technology developed by Tridonic. It guarantees that the lamp will be correctly identified and operated precisely. Lifetime and luminous flux values are therefore at the high levels expected of Tridonic.

The PC PRO-M ballasts are multi-talented when it comes to reducing costs. Wholesalers and luminaire manufacturers can reduce the size of their component warehouses because a luminaire with a multi-lamp ECG can be equipped with various lamps of the same length.

A smaller range of luminaires simplifies the internal processes within a company, from ordering through to warehousing. And for planners, operators and facility managers there is greater flexibility because the illuminance in a room can be easily changed to suit a change of use for the room or a change of tenant.

By providing a single ballast to operate different lamps of the same length Tridonic is once again demonstrating its exceptional expertise in this field and giving its customer additional choice. In addition to the PC PRO-M ballasts for multi-lamp operation the entire range of standard devices for the individual wattages will continue to be offered.

PC PRO – technology for the future

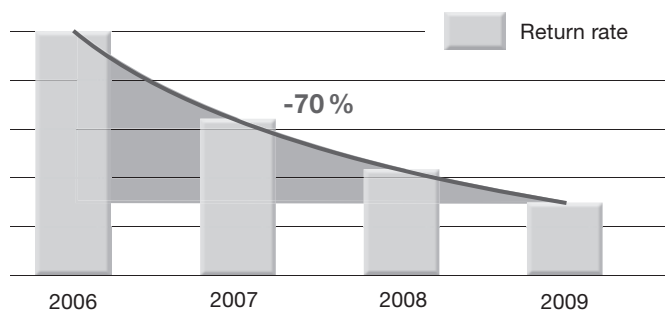
PC PRO ballasts are all equipped with the x!tec chip and have unrivalled tolerance behaviour. First-class lighting comfort and consistently high quality are therefore guaranteed.

Tridonic is renowned for its many years of experience in developing and designing electronic ballasts. With the x!tec chip it has now succeeded in taking the digital functionality of lamp control to another level and achieving even greater performance.

Five generations of ASICs, more than 200 inventions and more than 2,000 patents are ample evidence of the digital expertise of Tridonic. Intelligence has always been built into application-specific integrated circuits (ASICs). These are Tridonic's own developments and are used exclusively in Tridonic devices.



The PC PRO family of ECG combines the benefits of modern electronics with the advantages of compact casing design. The one to four-lamp versions are designed to operate T8 fluorescent lamps to 70 W, T5 HE lamps from 14 to 35 W, T5 HO lamps from 24 to 80 W and compact fluorescent lamps from 9 to 70 W.



Thanks to extremely high component integration x!tec stands for outstanding reliability and energy efficiency. Among other things, the processor is responsible for improved thermal management, which reduces power losses and at the same time increases equipment reliability. Since the operating temperature has a direct effect on service life a reduction in the continuous load results in a commensurate increase in life. In addition to other measures, the x!tec chip improved quality by 70 % over the last three years, based on returns statistics.



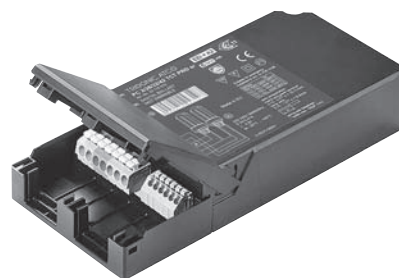
The integrated Intelligent Voltage Guard (IVG) circuit is a prevention feature that automatically monitors the mains voltage at the ballast to protect it against possible damage due to overvoltage or undervoltage. At mains voltages above 306 V the lamps flash on and off so the installer can immediately take

appropriate action. If the mains voltage falls below 150 V the ballast is automatically disconnected to protect the equipment from being irreparably damaged.

PC PRO sr for ceiling installation

The surface-mounted version has compact dimensions of just 150 x 79.5 x 34 mm, making it easy to install. The “all-in-one” casing has integrated cable clamps and terminal covers, further simplifying installation. The two-channel cable clamp does not require any tools or screws and is separate for mains and lamp cables.

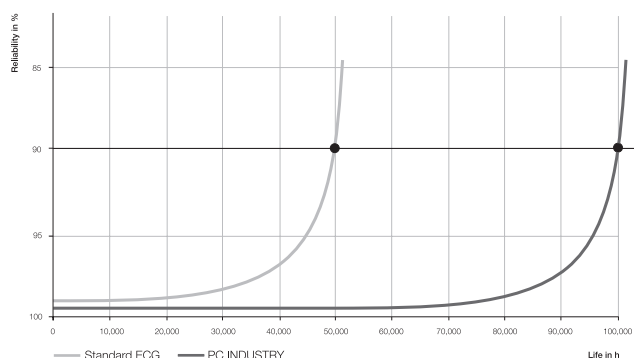
With PC PRO sr (strain relief), installation in shallow suspended ceilings, for example, is child’s play – backed by pioneering ECG expertise from Tridonic.



PC INDUSTRY for demanding applications

The extremely robust PC INDUSTRY ballasts are designed to operate 36 and 58 W T8 lamps, and 49, 54 and 80 W T5 lamps in harsh environments.

Life of PC INDUSTRY compared with a standard ECG



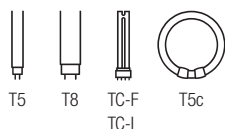
PC INDUSTRY ballasts show their strengths in applications with extremes of temperature and spikes in the power supply system. These ballasts have a life of 100,000 hours at a maximum ambient temperature of +60 °C. They are also capable of withstanding voltage peaks of up to 4 kV. Long lamp life and high levels of operational reliability for the lighting system throughout the life of the luminaires are therefore guaranteed. The logical conclusion is that less maintenance is needed, so maintenance costs are reduced.

PC BASIC for low system wattages

For system wattages of up to 25 W, compact PC BASIC ballasts are an excellent choice because they offer so many benefits, including a lifetime of 50,000 hours operating in a temperature range between –25 and +50 °C or +60 °C. Not forgetting the fact that gentle hot restarts prolong the life of fluorescent lamps.



These small and versatile ballasts will fit in almost any luminaire and are available for the entire range of lamp wattages from 4 to 28 W. The linear sl variant, a compact casing design and a board version are all available. PC BASIC is available in an EN 50172-compliant version for use in emergency lighting systems.

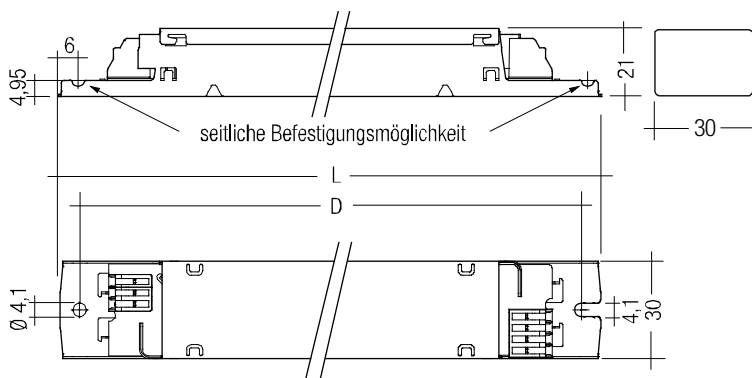


PC T5 PRO-M Ip, 14 – 80 W

T5, T8, compact (CFL) and T5c circular fluorescent lamps

Product description

- Integrated lamp detection
 - Operation of T5 lamps of the same length
 - Average life = 50,000 hours (at max ta.
with a failure rate $\leq 0.2\%$ per 1,000 hours)
 - Large temperature range (for values see table)
 - Safety shutdown at end of life
 - Automatic start after replacement of defective lamps
 - For emergency lighting systems as per EN 50172
 - Constant luminous flux irrespective of fluctuations in mains voltage
 - For luminaires of protection class 1 and protection class 2
 - Temperature protection as per EN 61347-2-3 C5e
 - Insulation Displacement Connection (IDC) terminal for rapid automatic or manual wiring
 - For luminaires with F or M and MM as per EN 60598, VDE 0710 and VDE 0711
- For product data sheet go to www.tridonic.com, or available on request



Technical data

AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (Lamp start ≥ 198 V DC)
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 0.5 s
Operating frequency	≥ 40 kHz
Type of protection	IP20



Product matrix, page 44

Standards, page 44

Lamp matrix, page 46

Wiring diagrams and installation examples, page 74

Ordering data

Type	Article number
For luminaires with 1 lamp	
PC 1/14-35/24/39 T5 PRO-M Ip	22176182
PC 1/14-35/49/54 T5 PRO-M Ip	22176183
PC 1/14-35/49/80 T5 PRO-M Ip	22176184
For luminaires with 2 lamps	
PC 2/14-28/24/39 T5 PRO-M Ip	22176185
PC 2/14-35/49/54 T5 PRO-M Ip	22176186

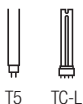
Packaging: 10 pieces/carton, 760 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Lamp wattage	Circuit power	EEL	Current at 50 Hz		λ at 50 Hz		tc point	Ambient temperature ta
									220 V	240 V	220 V	240 V		
For luminaires with 1 lamp														
1 x 14 W	T5	PC 1/14-35/24/39 T5 PRO-M Ip	360 mm	350 mm	0.25 kg	14.0 W	16.5 W	A2	0.090 A	0.08 A	0.89	0.85	75 °C	-25 ... 65 °C
1 x 21 W	T5	PC 1/14-35/24/39 T5 PRO-M Ip	360 mm	350 mm	0.25 kg	20.6 W	23.0 W	A2	0.110 A	0.11 A	0.92	0.90	75 °C	-25 ... 65 °C
1 x 24 W	T5	PC 1/14-35/24/39 T5 PRO-M Ip	360 mm	350 mm	0.25 kg	22.5 W	25.0 W	A2	0.120 A	0.11 A	0.97	0.95	75 °C	-25 ... 60 °C
1 x 28 W	T5	PC 1/14-35/24/39 T5 PRO-M Ip	360 mm	350 mm	0.25 kg	27.9 W	31.0 W	A2	0.150 A	0.14 A	0.97	0.95	75 °C	-25 ... 60 °C
1 x 35 W	T5	PC 1/14-35/24/39 T5 PRO-M Ip	360 mm	350 mm	0.25 kg	35.5 W	39.0 W	A2	0.180 A	0.17 A	0.98	0.96	75 °C	-25 ... 60 °C
1 x 39 W	T5	PC 1/14-35/24/39 T5 PRO-M Ip	360 mm	350 mm	0.25 kg	38.0 W	41.0 W	A2	0.190 A	0.18 A	0.98	0.96	75 °C	-25 ... 60 °C
1 x 22 W	T5c	PC 1/14-35/24/39 T5 PRO-M Ip	360 mm	350 mm	0.25 kg	23.5 W	25.5 W	A2	0.120 A	0.11 A	0.97	0.95	75 °C	-25 ... 65 °C
1 x 40 W	T5c	PC 1/14-35/24/39 T5 PRO-M Ip	360 mm	350 mm	0.25 kg	40.0 W	43.0 W	A2	0.200 A	0.19 A	0.98	0.96	75 °C	-25 ... 60 °C
1 x 18 W	T8	PC 1/14-35/24/39 T5 PRO-M Ip	360 mm	350 mm	0.25 kg	17.0 W	18.5 W	A2	0.090 A	0.09 A	0.91	0.89	75 °C	-25 ... 65 °C
1 x 30 W	T8	PC 1/14-35/24/39 T5 PRO-M Ip	360 mm	350 mm	0.25 kg	26.5 W	29.5 W	A2	0.140 A	0.13 A	0.97	0.95	75 °C	-25 ... 65 °C
1 x 36 W	T8	PC 1/14-35/24/39 T5 PRO-M Ip	360 mm	350 mm	0.25 kg	32.0 W	34.5 W	A2	0.160 A	0.15 A	0.97	0.95	75 °C	-25 ... 65 °C
1 x 18 W	TC-F	PC 1/14-35/24/39 T5 PRO-M Ip	360 mm	350 mm	0.25 kg	15.5 W	16.5 W	A2	0.080 A	0.08 A	0.91	0.89	75 °C	-25 ... 65 °C
1 x 24 W	TC-F	PC 1/14-35/24/39 T5 PRO-M Ip	360 mm	350 mm	0.25 kg	23.0 W	25.0 W	A2	0.120 A	0.11 A	0.97	0.95	75 °C	-25 ... 65 °C
1 x 36 W	TC-F	PC 1/14-35/24/39 T5 PRO-M Ip	360 mm	350 mm	0.25 kg	30.5 W	33.0 W	A2	0.150 A	0.14 A	0.97	0.95	75 °C	-25 ... 65 °C

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Lamp wattage	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point	Ambient temperature ta
									220 V	240 V	220 V	240 V		
1 x 18 W	TC-L	PC 1/14-35/24/39 T5 PRO-M lp	360 mm	350 mm	0.25 kg	15.5 W	17.0 W	A2	0.090 A	0.08 A	0.91	0.89	75 °C	-25 ... 65 °C
1 x 24 W	TC-L	PC 1/14-35/24/39 T5 PRO-M lp	360 mm	350 mm	0.25 kg	23.0 W	24.5 W	A2	0.110 A	0.11 A	0.97	0.95	75 °C	-25 ... 65 °C
1 x 36 W	TC-L	PC 1/14-35/24/39 T5 PRO-M lp	360 mm	350 mm	0.25 kg	30.5 W	33.0 W	A2	0.150 A	0.14 A	0.97	0.95	75 °C	-25 ... 65 °C
1 x 40 W	TC-L	PC 1/14-35/24/39 T5 PRO-M lp	360 mm	350 mm	0.25 kg	40.0 W	42.0 W	A2	0.190 A	0.18 A	0.98	0.96	75 °C	-25 ... 60 °C
1 x 14 W	T5	PC 1/14-35/49/54 T5 PRO-M lp	360 mm	350 mm	0.25 kg	14.0 W	16.5 W	A2	0.085 A	0.08 A	0.89	0.85	75 °C	-25 ... 65 °C
1 x 21 W	T5	PC 1/14-35/49/54 T5 PRO-M lp	360 mm	350 mm	0.25 kg	20.6 W	23.0 W	A2	0.120 A	0.11 A	0.92	0.90	75 °C	-25 ... 60 °C
1 x 28 W	T5	PC 1/14-35/49/54 T5 PRO-M lp	360 mm	350 mm	0.25 kg	27.9 W	31.0 W	A2	0.150 A	0.14 A	0.97	0.95	75 °C	-25 ... 60 °C
1 x 35 W	T5	PC 1/14-35/49/54 T5 PRO-M lp	360 mm	350 mm	0.25 kg	35.5 W	39.0 W	A2	0.180 A	0.17 A	0.98	0.96	75 °C	-25 ... 55 °C
1 x 49 W	T5	PC 1/14-35/49/54 T5 PRO-M lp	360 mm	350 mm	0.25 kg	49.2 W	52.5 W	A2	0.240 A	0.23 A	0.99	0.97	75 °C	-25 ... 55 °C
1 x 54 W	T5	PC 1/14-35/49/54 T5 PRO-M lp	360 mm	350 mm	0.25 kg	54.1 W	58.0 W	A2	0.270 A	0.25 A	0.99	0.97	75 °C	-25 ... 55 °C
1 x 58 W	T8	PC 1/14-35/49/54 T5 PRO-M lp	360 mm	350 mm	0.25 kg	50.0 W	54.0 W	A2	0.250 A	0.23 A	0.99	0.97	75 °C	-25 ... 55 °C
1 x 14 W	T5	PC 1/14-35/49/80 T5 PRO-M lp	360 mm	350 mm	0.26 kg	14.0 W	16.5 W	A2	0.085 A	0.08 A	0.89	0.85	75 °C	-25 ... 60 °C
1 x 21 W	T5	PC 1/14-35/49/80 T5 PRO-M lp	360 mm	350 mm	0.26 kg	20.6 W	24.0 W	A2	0.120 A	0.11 A	0.92	0.90	75 °C	-25 ... 60 °C
1 x 28 W	T5	PC 1/14-35/49/80 T5 PRO-M lp	360 mm	350 mm	0.26 kg	27.9 W	31.5 W	A2	0.150 A	0.14 A	0.97	0.95	75 °C	-25 ... 60 °C
1 x 35 W	T5	PC 1/14-35/49/80 T5 PRO-M lp	360 mm	350 mm	0.26 kg	35.5 W	39.0 W	A2	0.180 A	0.17 A	0.98	0.96	70 °C	-25 ... 55 °C
1 x 49 W	T5	PC 1/14-35/49/80 T5 PRO-M lp	360 mm	350 mm	0.26 kg	49.2 W	53.5 W	A2	0.250 A	0.23 A	0.99	0.97	75 °C	-25 ... 55 °C
1 x 80 W	T5	PC 1/14-35/49/80 T5 PRO-M lp	360 mm	350 mm	0.26 kg	79.8 W	85.0 W	A2	0.390 A	0.37 A	0.99	0.97	75 °C	-25 ... 55 °C
1 x 55 W	T5c	PC 1/14-35/49/80 T5 PRO-M lp	360 mm	350 mm	0.26 kg	55.0 W	59.5 W	A2	0.280 A	0.26 A	0.99	0.97	75 °C	-25 ... 55 °C
1 x 55 W	TC-L	PC 1/14-35/49/80 T5 PRO-M lp	360 mm	350 mm	0.26 kg	55.0 W	59.0 W	A2	0.270 A	0.25 A	0.99	0.97	75 °C	-25 ... 55 °C
1 x 80 W	TC-L	PC 1/14-35/49/80 T5 PRO-M lp	360 mm	350 mm	0.26 kg	80.0 W	84.0 W	A2	0.390 A	0.36 A	0.99	0.97	75 °C	-25 ... 55 °C
For luminaires with 2 lamps														
2 x 14 W	T5	PC 2/14-28/24/39 T5 PRO-M lp	360 mm	350 mm	0.27 kg	28.0 W	32.0 W	A2	0.150 A	0.14 A	0.96	0.94	75 °C	-25 ... 60 °C
2 x 21 W	T5	PC 2/14-28/24/39 T5 PRO-M lp	360 mm	350 mm	0.27 kg	41.2 W	47.0 W	A2	0.220 A	0.21 A	0.97	0.95	70 °C	-25 ... 50 °C
2 x 24 W	T5	PC 2/14-28/24/39 T5 PRO-M lp	360 mm	350 mm	0.27 kg	45.0 W	49.0 W	A2	0.230 A	0.21 A	0.98	0.96	75 °C	-25 ... 55 °C
2 x 39 W	T5	PC 2/14-28/24/39 T5 PRO-M lp	360 mm	350 mm	0.27 kg	76.0 W	82.0 W	A2	0.380 A	0.35 A	0.99	0.97	75 °C	-25 ... 55 °C
2 x 22 W	T5c	PC 2/14-28/24/39 T5 PRO-M lp	360 mm	350 mm	0.27 kg	46.5 W	48.0 W	A2	0.220 A	0.21 A	0.98	0.96	75 °C	-25 ... 60 °C
2 x 40 W	T5c	PC 2/14-28/24/39 T5 PRO-M lp	360 mm	350 mm	0.27 kg	80.0 W	85.0 W	A2	0.390 A	0.37 A	0.99	0.97	75 °C	-25 ... 55 °C
2 x 18 W	T8	PC 2/14-28/24/39 T5 PRO-M lp	360 mm	350 mm	0.27 kg	32.0 W	35.0 W	A2	0.170 A	0.16 A	0.96	0.94	75 °C	-25 ... 60 °C
2 x 36 W	T8	PC 2/14-28/24/39 T5 PRO-M lp	360 mm	350 mm	0.27 kg	64.0 W	68.5 W	A2	0.320 A	0.30 A	0.98	0.96	75 °C	-25 ... 55 °C
2 x 18 W	TC-F	PC 2/14-28/24/39 T5 PRO-M lp	360 mm	350 mm	0.27 kg	32.0 W	34.0 W	A2	0.160 A	0.15 A	0.96	0.94	75 °C	-25 ... 60 °C
2 x 24 W	TC-F	PC 2/14-28/24/39 T5 PRO-M lp	360 mm	350 mm	0.27 kg	46.0 W	47.5 W	A2	0.220 A	0.21 A	0.98	0.96	75 °C	-25 ... 55 °C
2 x 36 W	TC-F	PC 2/14-28/24/39 T5 PRO-M lp	360 mm	350 mm	0.27 kg	61.0 W	67.5 W	A2	0.310 A	0.29 A	0.98	0.96	75 °C	-25 ... 55 °C
2 x 18 W	TC-L	PC 2/14-28/24/39 T5 PRO-M lp	360 mm	350 mm	0.27 kg	32.0 W	35.0 W	A2	0.170 A	0.16 A	0.96	0.94	75 °C	-25 ... 60 °C
2 x 24 W	TC-L	PC 2/14-28/24/39 T5 PRO-M lp	360 mm	350 mm	0.27 kg	46.0 W	47.5 W	A2	0.220 A	0.21 A	0.98	0.96	75 °C	-25 ... 55 °C
2 x 36 W	TC-L	PC 2/14-28/24/39 T5 PRO-M lp	360 mm	350 mm	0.27 kg	61.0 W	67.5 W	A2	0.310 A	0.29 A	0.98	0.96	75 °C	-25 ... 55 °C
2 x 40 W	TC-L	PC 2/14-28/24/39 T5 PRO-M lp	360 mm	350 mm	0.27 kg	80.0 W	84.5 W	A2	0.390 A	0.36 A	0.99	0.97	75 °C	-25 ... 55 °C
2 x 14 W	T5	PC 2/14-35/49/54 T5 PRO-M lp	360 mm	350 mm	0.27 kg	28.0 W	32.0 W	A2	0.150 A	0.14 A	0.96	0.94	75 °C	-25 ... 60 °C
2 x 21 W	T5	PC 2/14-35/49/54 T5 PRO-M lp	360 mm	350 mm	0.27 kg	41.2 W	45.0 W	A2	0.210 A	0.20 A	0.97	0.95	75 °C	-25 ... 60 °C
2 x 28 W	T5	PC 2/14-35/49/54 T5 PRO-M lp	360 mm	350 mm	0.27 kg	55.8 W	61.0 W	A2	0.280 A	0.26 A	0.98	0.96	75 °C	-25 ... 55 °C
2 x 35 W	T5	PC 2/14-35/49/54 T5 PRO-M lp	360 mm	350 mm	0.27 kg	71.0 W	76.5 W	A2	0.350 A	0.33 A	0.98	0.96	70 °C	-25 ... 50 °C
2 x 49 W	T5	PC 2/14-35/49/54 T5 PRO-M lp	360 mm	350 mm	0.27 kg	98.4 W	105.0 W	A2	0.480 A	0.45 A	0.99	0.97	75 °C	-25 ... 50 °C
2 x 54 W	T5	PC 2/14-35/49/54 T5 PRO-M lp	360 mm	350 mm	0.27 kg	108.2 W	117.0 W	A2	0.540 A	0.50 A	0.99	0.97	75 °C	-25 ... 50 °C
2 x 58 W	T8	PC 2/14-35/49/54 T5 PRO-M lp	360 mm	350 mm	0.27 kg	100.0 W	108.0 W	A2	0.500 A	0.46 A	0.99	0.97	70 °C	-25 ... 50 °C



PC T5 PRO Ip, 14 – 35 W

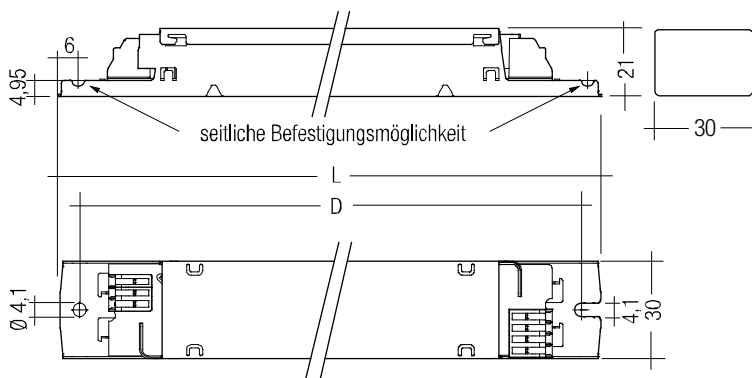
T5 high efficiency and TC-L compact fluorescent lamps (CFL)

Product description

- Average life = 50,000 hours (at max ta.
with a failure rate ≤ 0.2 % per 1,000 hours)
 - Large temperature range (for values see table)
 - Safety shutdown at end of life
 - Automatic start after replacement of defective lamps
 - For emergency lighting systems as per EN 50172
 - Constant luminous flux irrespective of fluctuations in mains voltage
 - For luminaires of protection class 1 and protection class 2
 - Insulation Displacement Connection (IDC) terminal for rapid automatic or manual wiring
 - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (Lamp start ≥ 198 V DC)
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.5 s
Operating frequency	≥ 40 kHz
Type of protection	IP20



Ordering data

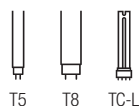
Type	Article number
For luminaires with 1 lamp	
PC 1/14-21-28-35 T5 PRO Ip	22176096
For luminaires with 2 lamps	
PC 2/14-21-28-35 T5 PRO Ip	22176097
For luminaires with 3 or 4 lamps	
PC 3/4/14 T5 PRO Ip	22176315

Packaging 280 mm casing: 10 pieces/carton, 960 pieces/pallet

Packaging 360 mm casing: 10 pieces/carton, 760 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Lamp wattage	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point	Ambient temperature ta
									220 V	240 V	220 V	240 V		
For luminaires with 1 lamp														
1 x 14 W	T5	PC 1/14-21-28-35 T5 PRO Ip	280 mm	270 mm	0.20 kg	14.0 W	16.0 W	A2	0.07 A	0.07 A	0.98	0.96	75 °C	-25 ... 55 °C
1 x 21 W	T5	PC 1/14-21-28-35 T5 PRO Ip	280 mm	270 mm	0.20 kg	20.6 W	22.5 W	A2	0.10 A	0.10 A	0.98	0.96	75 °C	-25 ... 55 °C
1 x 28 W	T5	PC 1/14-21-28-35 T5 PRO Ip	280 mm	270 mm	0.20 kg	27.9 W	30.5 W	A2	0.14 A	0.13 A	0.98	0.96	75 °C	-25 ... 55 °C
1 x 35 W	T5	PC 1/14-21-28-35 T5 PRO Ip	280 mm	270 mm	0.20 kg	35.5 W	38.5 W	A2	0.18 A	0.17 A	0.98	0.96	75 °C	-25 ... 55 °C
1 x 28 W	TC-L	PC 1/14-21-28-35 T5 PRO Ip	280 mm	270 mm	0.20 kg	25.8 W	29.0 W	A2	0.13 A	0.12 A	0.98	0.97	70 °C	-25 ... 55 °C
For luminaires with 2 lamps														
2 x 14 W	T5	PC 2/14-21-28-35 T5 PRO Ip	360 mm	350 mm	0.26 kg	28.0 W	31.0 W	A2	0.14 A	0.14 A	0.98	0.96	80 °C	-25 ... 50 °C
2 x 21 W	T5	PC 2/14-21-28-35 T5 PRO Ip	360 mm	350 mm	0.26 kg	41.2 W	45.5 W	A2	0.21 A	0.20 A	0.99	0.97	80 °C	-25 ... 50 °C
2 x 28 W	T5	PC 2/14-21-28-35 T5 PRO Ip	360 mm	350 mm	0.26 kg	55.8 W	61.0 W	A2	0.28 A	0.26 A	0.99	0.97	80 °C	-25 ... 50 °C
2 x 35 W	T5	PC 2/14-21-28-35 T5 PRO Ip	360 mm	350 mm	0.26 kg	71.0 W	76.5 W	A2	0.35 A	0.33 A	0.99	0.97	80 °C	-25 ... 50 °C
2 x 28 W	TC-L	PC 2/14-21-28-35 T5 PRO Ip	360 mm	350 mm	0.26 kg	49.7 W	54.5 W	A2	0.25 A	0.23 A	0.98	0.97	70 °C	-25 ... 50 °C
For luminaires with 3 or 4 lamps														
3 x 14 W	T5	PC 3/4/14 T5 PRO Ip	360 mm	350 mm	0.25 kg	42.0 W	47.1 W	A2	0.22 A	0.20 A	0.98	0.97	65 °C	-25 ... 50 °C
4 x 14 W	T5	PC 3/4/14 T5 PRO Ip	360 mm	350 mm	0.25 kg	56.0 W	62.3 W	A2	0.29 A	0.26 A	0.99	0.98	70 °C	-25 ... 50 °C



PC T5 PRO Ip, 15 – 80 W

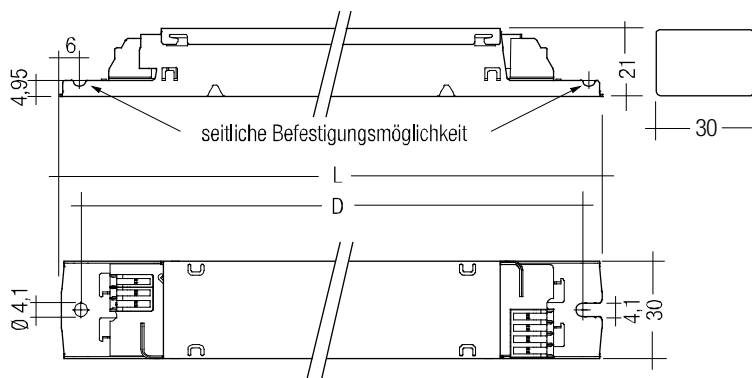
T5 high output, T8 and TC-L fluorescent lamps (CFL)

Product description

- Average life = 50,000 hours (at max ta.
with a failure rate $\leq 0.2\%$ per 1,000 hours)
 - Large temperature range (for values see table)
 - Safety shutdown at end of life
 - Automatic start after replacement of defective lamps
 - For emergency lighting systems as per EN 50172
 - Constant luminous flux irrespective of fluctuations in mains voltage
 - For luminaires of protection class 1 and protection class 2
 - For luminaires with F or M and MM as per EN 60598,
VDE 0710 and VDE 0711
 - Insulation Displacement Connection (IDC) terminal
for rapid automatic or manual wiring
 - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (Lamp start ≥ 198 V DC)
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.5 s
Operating frequency	≥ 40 kHz
Type of protection	IP20



Ordering data

Type	Article number
For luminaires with 1 lamp	
PC 1/24 T5 PRO Ip	22176164
PC 1/39 T5 PRO Ip	22176165
PC 1/49 T5 PRO Ip	22176139
PC 1/54 T5 PRO Ip	22176140
PC 1/80 T5 PRO Ip	22176167
For luminaires with 2 lamps	
PC 2/24 T5 PRO Ip	22176168
PC 2/39 T5 PRO Ip	22176166
PC 2/49 T5 PRO Ip	22176099
PC 2/54 T5 PRO Ip	22176100
PC 2/80 T5 PRO Ip	22176234
For luminaires with 3 or 4 lamps	
PC 3/4/24 T5 PRO Ip	22176047

Packaging 280 mm casing: 10 pieces/carton, 960 pieces/pallet

Packaging 360 mm casing: 10 pieces/carton, 760 pieces/pallet

Packaging 425 mm casing: 25 pieces/carton, 825 pieces/pallet



Product matrix, page 44

Standards, page 44

Lamp matrix, page 46

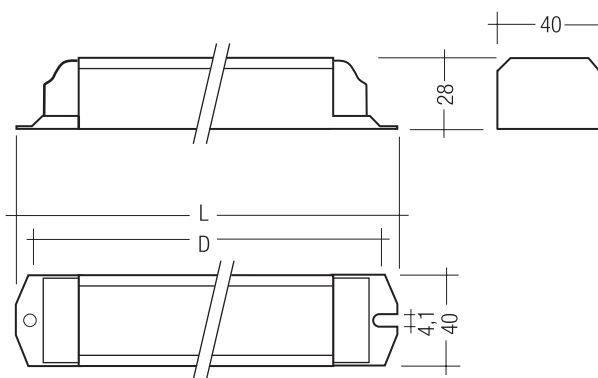
Wiring diagrams and installation examples, page 74

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Lamp wattage	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point	Ambient temperature ta
									220 V	240 V	220 V	240 V		
For luminaires with 1 lamp														
1 x 24 W	T5	PC 1/24 T5 PRO Ip	280 mm	270 mm	0.18 kg	22.5 W	25.7 W	A2	0.12 A	0.11 A	0.96	0.95	70 °C	-25 ... 60 °C
1 x 24 W	TC-L	PC 1/24 T5 PRO Ip	280 mm	270 mm	0.18 kg	22.0 W	24.9 W	A2	0.12 A	0.11 A	0.96	0.95	70 °C	-25 ... 60 °C
1 x 39 W	T5	PC 1/39 T5 PRO Ip	280 mm	270 mm	0.18 kg	38.0 W	40.4 W	A2	0.19 A	0.17 A	0.98	0.97	75 °C	-25 ... 60 °C
1 x 49 W	T5	PC 1/49 T5 PRO Ip	280 mm	270 mm	0.20 kg	49.2 W	52.5 W	A2	0.24 A	0.23 A	0.99	0.97	75 °C	-25 ... 55 °C
1 x 54 W	T5	PC 1/54 T5 PRO Ip	280 mm	270 mm	0.20 kg	54.1 W	57.5 W	A2	0.26 A	0.25 A	0.99	0.97	70 °C	-25 ... 50 °C
1 x 55 W	TC-L	PC 1/54 T5 PRO Ip	280 mm	270 mm	0.20 kg	55.0 W	59.0 W	A2	0.26 A	0.24 A	0.98	0.97	70 °C	-25 ... 50 °C
1 x 80 W	T5	PC 1/80 T5 PRO Ip	360 mm	350 mm	0.25 kg	79.8 W	85.8 W	A2	0.40 A	0.36 A	0.99	0.98	75 °C	-25 ... 55 °C
For luminaires with 2 lamps														
2 x 24 W	T5	PC 2/24 T5 PRO Ip	360 mm	350 mm	0.22 kg	45.0 W	48.8 W	A2	0.23 A	0.21 A	0.98	0.97	70 °C	-25 ... 60 °C
2 x 24 W	TC-L	PC 2/24 T5 PRO Ip	360 mm	350 mm	0.22 kg	44.0 W	48.8 W	A2	0.23 A	0.21 A	0.98	0.97	70 °C	-25 ... 60 °C
2 x 39 W	T5	PC 2/39 T5 PRO Ip	360 mm	350 mm	0.25 kg	76.0 W	83.4 W	A2	0.39 A	0.36 A	0.98	0.98	75 °C	-25 ... 55 °C
2 x 49 W	T5	PC 2/49 T5 PRO Ip	360 mm	350 mm	0.26 kg	98.4 W	107.0 W	A2	0.49 A	0.46 A	0.99	0.97	80 °C	-25 ... 50 °C
2 x 54 W	T5	PC 2/54 T5 PRO Ip	360 mm	350 mm	0.26 kg	108.2 W	114.5 W	A2	0.53 A	0.49 A	0.99	0.97	80 °C	-25 ... 50 °C
2 x 55 W	TC-L	PC 2/54 T5 PRO Ip	360 mm	350 mm	0.26 kg	108.2 W	114.5 W	A2	0.53 A	0.49 A	0.99	0.97	80 °C	-25 ... 50 °C
2 x 80 W	T5	PC 2/80 T5 PRO Ip	425 mm	415 mm	0.33 kg	160.0 W	166.6 W	A2	0.77 A	0.70 A	0.99	0.99	75 °C	-25 ... 55 °C
For luminaires with 3 or 4 lamps														
3 x 24 W	T5	PC 3/4/24 T5 PRO Ip	425 mm	415 mm	0.28 kg	67.5 W	76.0 W	A2	0.35 A	0.33 A	0.98	0.97	75 °C	-25 ... 55 °C
4 x 24 W	T5	PC 3/4/24 T5 PRO Ip	425 mm	415 mm	0.28 kg	90.0 W	99.0 W	A2	0.45 A	0.42 A	0.99	0.98	75 °C	-25 ... 50 °C
3 x 15 W	T8	PC 3/4/24 T5 PRO Ip	425 mm	415 mm	0.28 kg	40.5 W	47.0 W	A2	0.22 A	0.21 A	0.96	0.94	75 °C	-25 ... 60 °C
3 x 18 W	T8	PC 3/4/24 T5 PRO Ip	425 mm	415 mm	0.28 kg	48.0 W	54.5 W	A2	0.26 A	0.24 A	0.97	0.96	75 °C	-25 ... 60 °C
4 x 15 W	T8	PC 3/4/24 T5 PRO Ip	425 mm	415 mm	0.28 kg	54.0 W	62.0 W	A2	0.29 A	0.27 A	0.97	0.96	75 °C	-25 ... 55 °C
4 x 18 W	T8	PC 3/4/24 T5 PRO Ip	425 mm	415 mm	0.28 kg	64.0 W	73.0 W	A2	0.34 A	0.31 A	0.98	0.97	75 °C	-25 ... 55 °C



PC T8 PRO, 18 – 70 W
T8 fluorescent lamps



Product description

- Average life = 50,000 hours (at max ta.
with a failure rate $\leq 0.2\%$ per 1,000 hours)
 - Large temperature range (for values see table)
 - Safety shutdown at end of life
 - Automatic start after replacement of defective lamps
 - For emergency lighting systems as per EN 50172
 - Constant luminous flux irrespective of fluctuations in mains voltage
 - For luminaires of protection class 1 and protection class 2
 - For luminaires with F or M and MM as per EN 60598,
VDE 0710 and VDE 0711
 - Insulation Displacement Connection (IDC) terminal
for rapid automatic or manual wiring
 - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (Lamp start ≥ 198 V DC)
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.5 s
Operating frequency	≥ 40 kHz
Type of protection	IP20

Ordering data

Type	Article number
For luminaires with 1 lamp	
PC 1/18 T8 PRO	22176093
PC 1/30 T8 PRO	22176077
PC 1/36 T8 PRO	22176217
PC 1/58 T8 PRO	22176094
PC 1/70 T8 PRO	22176171
For luminaires with 2 lamps	
PC 2/18 T8 PRO	22176107
PC 2/30 T8 PRO	22176078
PC 2/36 T8 PRO	22176218
PC 2/58 T8 PRO	22176215
PC 2/70 T8 PRO	22176232
For luminaires with 3 lamps	
PC 3/18 T8 PRO	22176187
PC 3/36 T8 PRO	22176231
For luminaires with 4 lamps	
PC 4/18 T8 PRO	22176163

Packaging 234 mm casing: 10 pieces/carton, 630 pieces/pallet

Packaging 360 mm casing: 10 pieces/carton, 420 pieces/pallet

Packaging PC 1/36 T8 PRO, PC 2/36 T8 PRO, PC 2/58 T8 PRO: 10 pieces/carton, 640 pieces/pallet



Product matrix, page 44

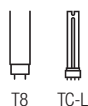
Standards, page 44

Lamp matrix, page 46

Wiring diagrams and installation examples, page 74

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Lamp wattage	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point	Ambient temperature ta
									220 V	240 V	220 V	240 V		
For luminaires with 1 lamp														
1 x 18 W	T8	PC 1/18 T8 PRO	234 mm	220 mm	0.28 kg	16 W	18.2 W	A2	0.08 A	0.08 A	0.99	0.98	70 °C	-25 ... 60 °C
1 x 30 W	T8	PC 1/30 T8 PRO	234 mm	220 mm	0.28 kg	24 W	28.0 W	A2	0.13 A	0.12 A	0.97	0.96	75 °C	-25 ... 60 °C
1 x 36 W	T8	PC 1/36 T8 PRO	234 mm	220 mm	0.28 kg	32 W	35.0 W	A2	0.16 A	0.15 A	0.98	0.98	75 °C	-25 ... 60 °C
1 x 58 W	T8	PC 1/58 T8 PRO	234 mm	220 mm	0.28 kg	50 W	54.0 W	A2	0.26 A	0.24 A	0.98	0.98	75 °C	-25 ... 50 °C
1 x 70 W	T8	PC 1/70 T8 PRO	234 mm	220 mm	0.20 kg	60 W	65.6 W	A2	0.30 A	0.28 A	0.99	0.98	75 °C	-25 ... 55 °C
For luminaires with 2 lamps														
2 x 18 W	T8	PC 2/18 T8 PRO	234 mm	220 mm	0.28 kg	32 W	36.0 W	A2	0.17 A	0.16 A	0.98	0.97	75 °C	-25 ... 60 °C
2 x 30 W	T8	PC 2/30 T8 PRO	234 mm	220 mm	0.28 kg	50 W	56.0 W	A2	0.26 A	0.24 A	0.97	0.96	75 °C	-25 ... 60 °C
2 x 36 W	T8	PC 2/36 T8 PRO	234 mm	220 mm	0.28 kg	64 W	69.8 W	A2	0.32 A	0.29 A	0.99	0.98	75 °C	-25 ... 55 °C
2 x 58 W	T8	PC 2/58 T8 PRO	234 mm	220 mm	0.28 kg	100 W	106.8 W	A2	0.49 A	0.45 A	0.99	0.99	80 °C	-25 ... 50 °C
2 x 70 W	T8	PC 2/70 T8 PRO	360 mm	350 mm	0.32 kg	120 W	136.8 W	A2	0.62 A	0.57 A	0.99	0.99	70 °C	-25 ... 50 °C
For luminaires with 3 lamps														
3 x 18 W	T8	PC 3/18 T8 PRO	234 mm	220 mm	0.28 kg	48 W	52.5 W	A2	0.24 A	0.23 A	0.98	0.97	70 °C	-25 ... 60 °C
3 x 36 W	T8	PC 3/36 T8 PRO	360 mm	350 mm	0.31 kg	96 W	106.5 W	A2	0.51 A	0.47 A	0.99	0.98	70 °C	-25 ... 50 °C
For luminaires with 4 lamps														
4 x 18 W	T8	PC 4/18 T8 PRO	234 mm	220 mm	0.28 kg	64 W	70.1 W	A2	0.33 A	0.30 A	0.98	0.97	70 °C	-25 ... 55 °C

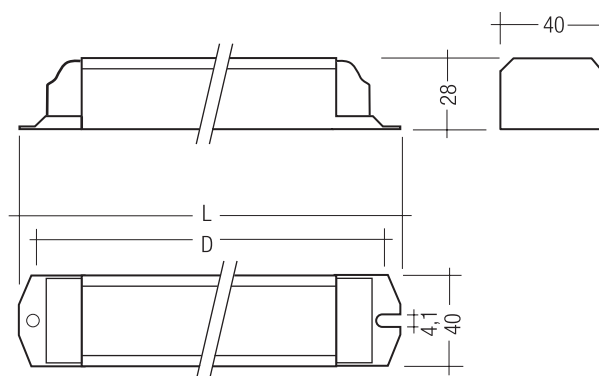


PC TCL PRO, 18 – 55 W

T8 and TC-L compact fluorescent lamps (CFL)

Product description

- Average life = 50,000 hours (at max ta.
with a failure rate $\leq 0.2\%$ per 1,000 hours)
 - Large temperature range (for values see table)
 - Safety shutdown at end of life
 - Automatic start after replacement of defective lamps
 - For emergency lighting systems as per EN 50172
 - Constant luminous flux irrespective of fluctuations in mains voltage
 - For luminaires of protection class 1 and protection class 2
 - For luminaires with F or M and MM as per EN 60598,
VDE 0710 and VDE 0711
 - Insulation Displacement Connection (IDC) terminal
for rapid automatic or manual wiring
 - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to www.tridonic.com,
or available on request



Technical data

AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (Lamp start ≥ 198 V DC)
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.5 s
Operating frequency	≥ 40 kHz
Type of protection	IP20

Ordering data

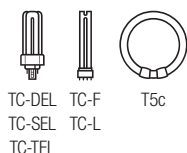
Type	Article number
For luminaires with 1 lamp	
PC 1/18/24 TCL PRO	22176068
PC 1/36 TCL PRO	22176141
PC 1/40 TCL PRO	22176142
PC 1/55 TCL PRO	22176169
For luminaires with 2 lamps	
PC 2/18/24 TCL PRO	22176069
PC 2/36 TCL PRO	22176170
PC 2/40 TCL PRO	22176143
PC 2/55 TCL PRO	22176233

Packaging 234 mm casing: 10 pieces/carton, 630 pieces/pallet

Packaging 360 mm casing: 10 pieces/carton, 420 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Lamp wattage	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point	Ambient temperature ta
									220 V	240 V	220 V	240 V		
For luminaires with 1 lamp														
1 x 18 W	TC-L	PC 1/18/24 TCL PRO	234 mm	220 mm	0.28 kg	16 W	18.5 W	A3	0.09 A	0.08 A	0.96	0.94	75 °C	-25 ... 60 °C
1 x 24 W	TC-L	PC 1/18/24 TCL PRO	234 mm	220 mm	0.28 kg	22 W	25.0 W	A3	0.12 A	0.11 A	0.98	0.96	75 °C	-25 ... 60 °C
1 x 38 W	T8	PC 1/36 TCL PRO	234 mm	220 mm	0.18 kg	32 W	34.2 W	A2	0.16 A	0.14 A	0.99	0.98	70 °C	-25 ... 60 °C
1 x 36 W	TC-L	PC 1/36 TCL PRO	234 mm	220 mm	0.18 kg	32 W	33.8 W	A2	0.16 A	0.14 A	0.99	0.98	70 °C	-25 ... 60 °C
1 x 40 W	TC-L	PC 1/40 TCL PRO	234 mm	220 mm	0.18 kg	40 W	44.1 W	A2	0.20 A	0.19 A	0.99	0.98	70 °C	-25 ... 60 °C
1 x 55 W	TC-L	PC 1/55 TCL PRO	234 mm	220 mm	0.20 kg	55 W	61.1 W	A2	0.28 A	0.26 A	0.98	0.98	75 °C	-25 ... 55 °C
For luminaires with 2 lamps														
2 x 18 W	TC-L	PC 2/18/24 TCL PRO	234 mm	220 mm	0.28 kg	32 W	36.0 W	A2	0.17 A	0.16 A	0.98	0.96	75 °C	-25 ... 60 °C
2 x 24 W	TC-L	PC 2/18/24 TCL PRO	234 mm	220 mm	0.28 kg	44 W	49.0 W	A2	0.22 A	0.21 A	0.99	0.97	75 °C	-25 ... 60 °C
2 x 38 W	T8	PC 2/36 TCL PRO	234 mm	220 mm	0.22 kg	64 W	72.6 W	A2	0.34 A	0.31 A	0.98	0.98	75 °C	-25 ... 50 °C
2 x 36 W	TC-L	PC 2/36 TCL PRO	234 mm	220 mm	0.22 kg	64 W	72.8 W	A2	0.34 A	0.31 A	0.98	0.98	75 °C	-25 ... 50 °C
2 x 40 W	TC-L	PC 2/40 TCL PRO	234 mm	220 mm	0.22 kg	80 W	89.6 W	A2	0.42 A	0.38 A	0.99	0.98	75 °C	-25 ... 55 °C
2 x 55 W	TC-L	PC 2/55 TCL PRO	360 mm	350 mm	0.30 kg	110 W	121.1 W	A2	0.56 A	0.52 A	0.99	0.99	70 °C	-25 ... 50 °C



PC PRO, 9 – 70 W

TC-SEL, TC-DEL, TC-TEL, T5c, TC-L, TC-F compact fluorescent lamps (CFL)

Product description

- Average life = 50,000 hours (at max ta.
with a failure rate ≤ 0.2 % per 1,000 hours)
 - Large temperature range (for values see table)
 - Safety shutdown at end of life
 - Automatic start after replacement of defective lamps
 - For emergency lighting systems as per EN 50172
 - Constant luminous flux irrespective of fluctuations in mains voltage
 - For luminaires of protection class 1 and protection class 2
 - For luminaires with F or M and MM as per EN 60598,
VDE 0710 and VDE 0711
 - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (Lamp start ≥ 198 V DC)
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.5 s
Operating frequency	≥ 40 kHz
Type of protection	IP20

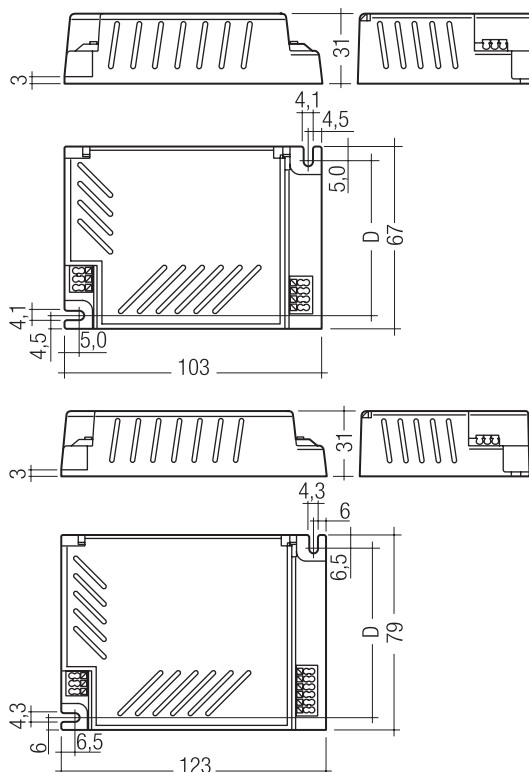


Product matrix, page 44

Standards, page 44

Lamp matrix, page 46

Wiring diagrams and installation examples, page 74



Ordering data

Type	Article number
For luminaires with 1 lamp	
PC 1/9/11 TCS PRO	22176027
PC 1/10/13 TCD PRO	22088899
PC 1/18 TCD PRO	22088906
PC 1/26/32/42 TCT PRO	22088329
PC 1/57/70 TCT PRO	22088915
For luminaires with 2 lamps	
PC 2/9/11 TCS PRO	22176028
PC 2/10/13 TCD PRO	22088921
PC 2/18 TCD PRO	22088937
PC 2/26/32 TCT PRO	22088943
PC 2/32/42 TCT PRO	22088959

Packaging 103 mm casing: 15 pieces/carton, 750 pieces/pallet

Packaging 123 mm casing: 10 pieces/carton, 500 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Type	Dimensions LxWxH	Hole spacing D	Weight	Lamp wattage	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point	Ambient temperature ta
									220 V	240 V	220 V	240 V		
For luminaires with 1 lamp														
1 x 13 W	TC-DEL	PC 1/9/11 TCS PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	11.2 W	15.8 W	A3	0.073 A	0.068 A	0.98	0.97	80 °C	-25 ... 60 °C
1 x 9 W	TC-SEL	PC 1/9/11 TCS PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	6.8 W	10.2 W	A2	0.048 A	0.045 A	0.96	0.95	80 °C	-25 ... 60 °C
1 x 11 W	TC-SEL	PC 1/9/11 TCS PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	10.0 W	14.1 W	A2	0.066 A	0.061 A	0.98	0.97	80 °C	-25 ... 60 °C
1 x 13 W	TC-TEL	PC 1/9/11 TCS PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	11.2 W	15.8 W	A3	0.073 A	0.068 A	0.98	0.97	80 °C	-25 ... 60 °C
1 x 10 W	TC-DEL	PC 1/10/13 TCD PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	9.5 W	12.0 W	A3	0.055 A	0.055 A	0.97	0.95	75 °C	-25 ... 50 °C
1 x 13 W	TC-DEL	PC 1/10/13 TCD PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	12.5 W	15.0 W	A3	0.070 A	0.065 A	0.98	0.96	75 °C	-25 ... 50 °C
1 x 13 W	TC-TEL	PC 1/10/13 TCD PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	12.5 W	15.0 W	A3	0.070 A	0.065 A	0.98	0.96	75 °C	-25 ... 50 °C
1 x 18 W	TC-DEL	PC 1/18 TCD PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	16.5 W	19.5 W	A3	0.090 A	0.085 A	0.99	0.97	70 °C	-25 ... 50 °C
1 x 18 W	TC-TEL	PC 1/18 TCD PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	16.5 W	19.5 W	A3	0.090 A	0.085 A	0.99	0.97	70 °C	-25 ... 50 °C
1 x 22 W	T5c	PC 1/26/32/42 TCT PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	22.3 W	25.4 W	A2	0.126 A	0.117 A	0.98	0.97	80 °C	-25 ... 60 °C
1 x 40 W	T5c	PC 1/26/32/42 TCT PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	40.0 W	43.0 W	A2	0.191 A	0.176 A	0.99	0.98	80 °C	-25 ... 60 °C
1 x 26 W	TC-DEL	PC 1/26/32/42 TCT PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	24.0 W	26.5 W	A2	0.125 A	0.115 A	0.97	0.95	80 °C	-25 ... 60 °C
1 x 18 W	TC-F	PC 1/26/32/42 TCT PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	16.0 W	18.5 W	A2	0.081 A	0.076 A	0.96	0.94	80 °C	-25 ... 60 °C
1 x 24 W	TC-F	PC 1/26/32/42 TCT PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	22.0 W	25.5 W	A2	0.112 A	0.104 A	0.97	0.96	80 °C	-25 ... 60 °C
1 x 18 W	TC-L	PC 1/26/32/42 TCT PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	16.0 W	18.5 W	A2	0.086 A	0.080 A	0.96	0.94	80 °C	-25 ... 60 °C
1 x 24 W	TC-L	PC 1/26/32/42 TCT PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	22.0 W	25.5 W	A2	0.122 A	0.113 A	0.98	0.97	80 °C	-25 ... 60 °C
1 x 26 W	TC-TEL	PC 1/26/32/42 TCT PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	24.0 W	26.5 W	A2	0.125 A	0.115 A	0.97	0.95	80 °C	-25 ... 60 °C
1 x 32 W	TC-TEL	PC 1/26/32/42 TCT PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	32.0 W	34.5 W	A2	0.160 A	0.150 A	0.98	0.96	80 °C	-25 ... 60 °C
1 x 42 W	TC-TEL	PC 1/26/32/42 TCT PRO	103 x 67 x 31 mm	57.5 mm	0.14 kg	42.0 W	46.0 W	A2	0.210 A	0.200 A	0.99	0.97	80 °C	-25 ... 60 °C
1 x 57 W	TC-TEL	PC 1/57/70 TCT PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	57.5 W	60.5 W	A2	0.280 A	0.265 A	0.98	0.96	85 °C	-25 ... 50 °C
1 x 70 W	TC-TEL	PC 1/57/70 TCT PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	70.0 W	75.0 W	A2	0.345 A	0.320 A	0.99	0.97	85 °C	-25 ... 50 °C
For luminaires with 2 lamps														
2 x 13 W	TC-DEL	PC 2/9/11 TCS PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	24.8 W	29.5 W	A2	0.135 A	0.125 A	0.98	0.97	80 °C	-25 ... 60 °C
2 x 9 W	TC-SEL	PC 2/9/11 TCS PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	14.4 W	18.3 W	A2	0.087 A	0.081 A	0.96	0.95	80 °C	-25 ... 60 °C
2 x 11 W	TC-SEL	PC 2/9/11 TCS PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	21.0 W	26.1 W	A2	0.121 A	0.113 A	0.97	0.97	80 °C	-25 ... 60 °C
2 x 13 W	TC-TEL	PC 2/9/11 TCS PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	24.8 W	29.5 W	A2	0.135 A	0.125 A	0.98	0.97	80 °C	-25 ... 60 °C
2 x 10 W	TC-DEL	PC 2/10/13 TCD PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	19.0 W	21.5 W	A2	0.100 A	0.095 A	0.95	0.93	75 °C	-25 ... 50 °C
2 x 13 W	TC-DEL	PC 2/10/13 TCD PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	25.0 W	28.0 W	A2	0.130 A	0.125 A	0.97	0.95	75 °C	-25 ... 50 °C
2 x 13 W	TC-TEL	PC 2/10/13 TCD PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	25.0 W	28.0 W	A2	0.130 A	0.125 A	0.97	0.95	75 °C	-25 ... 50 °C
2 x 18 W	TC-DEL	PC 2/18 TCD PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	33.0 W	37.5 W	A2	0.170 A	0.160 A	0.99	0.97	70 °C	-25 ... 50 °C
2 x 18 W	TC-TEL	PC 2/18 TCD PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	33.0 W	37.5 W	A2	0.170 A	0.160 A	0.99	0.97	70 °C	-25 ... 50 °C
2 x 22 W	T5c	PC 2/26/32 TCT PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	44.6 W	49.3 W	A2	0.242 A	0.224 A	0.98	0.98	80 °C	-25 ... 60 °C
2 x 26 W	TC-DEL	PC 2/26/32 TCT PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	48.0 W	51.0 W	A2	0.235 A	0.220 A	0.99	0.97	80 °C	-25 ... 60 °C
2 x 18 W	TC-F	PC 2/26/32 TCT PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	32.0 W	34.2 W	A2	0.146 A	0.136 A	0.97	0.96	80 °C	-25 ... 60 °C
2 x 24 W	TC-F	PC 2/26/32 TCT PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	44.0 W	50.2 W	A2	0.211 A	0.195 A	0.98	0.98	80 °C	-25 ... 60 °C
2 x 18 W	TC-L	PC 2/26/32 TCT PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	32.0 W	34.2 W	A2	0.159 A	0.148 A	0.97	0.96	80 °C	-25 ... 60 °C
2 x 24 W	TC-L	PC 2/26/32 TCT PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	44.0 W	50.2 W	A2	0.234 A	0.216 A	0.98	0.98	80 °C	-25 ... 60 °C
2 x 26 W	TC-TEL	PC 2/26/32 TCT PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	48.0 W	51.0 W	A2	0.235 A	0.220 A	0.99	0.97	80 °C	-25 ... 60 °C
2 x 32 W	TC-TEL	PC 2/26/32 TCT PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	64.0 W	68.0 W	A2	0.310 A	0.290 A	0.99	0.97	80 °C	-25 ... 60 °C
1 x 22 + 40 W	T5c	PC 2/32/42 TCT PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	62.3 W	68.7 W	A2	0.295 A	0.252 A	0.98	0.97	80 °C	-25 ... 55 °C
2 x 40 W	T5c	PC 2/32/42 TCT PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	80.0 W	82.3 W	A2	0.379 A	0.351 A	0.99	0.98	80 °C	-25 ... 55 °C
2 x 32 W	TC-TEL	PC 2/32/42 TCT PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	64.0 W	68.0 W	A2	0.315 A	0.295 A	0.98	0.96	80 °C	-25 ... 55 °C
2 x 42 W	TC-TEL	PC 2/32/42 TCT PRO	123 x 79 x 31 mm	66.5 mm	0.17 kg	84.0 W	89.0 W	A2	0.410 A	0.380 A	0.99	0.97	80 °C	-25 ... 55 °C



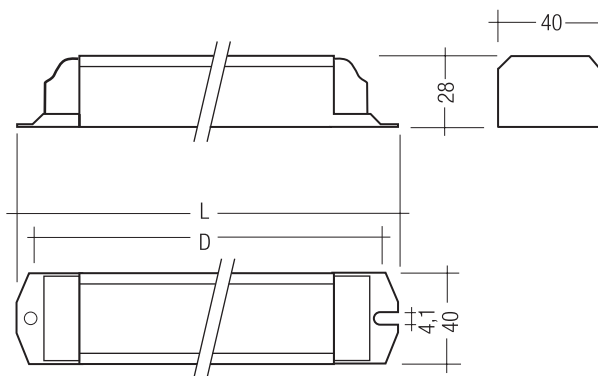
PC DD PRO sc, 28 – 55 W
TC-DD fluorescent lamps

Product description

- Average life = 50,000 hours (at max ta.
with a failure rate ≤ 0.2 % per 1,000 hours)
 - Large temperature range (for values see table)
 - Safety shutdown at end of life
 - Automatic start after replacement of defective lamps
 - For emergency lighting systems as per EN 50172
 - Constant luminous flux irrespective of fluctuations in mains voltage
 - For luminaires of protection class 1 and protection class 2
 - For luminaires with F or M and MM as per EN 60598,
VDE 0710 and VDE 0711
 - Insulation Displacement Connection (IDC) terminal
for rapid automatic or manual wiring
 - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (Lamp start ≥ 198 V DC)
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.5 s
Operating frequency	≥ 40 kHz
Type of protection	IP20



Ordering data

Type	Article number
For luminaires with 1 lamp	
PC 1/28 DD PRO sc	89800004
PC 1/38 DD PRO sc	89800005
PC 1/55 DD PRO sc	89800006

Packaging: 25 pieces/carton, 1000 pieces/pallet



Product matrix, page 44

Standards, page 44

Lamp matrix, page 46

Wiring diagrams and installation examples, page 74

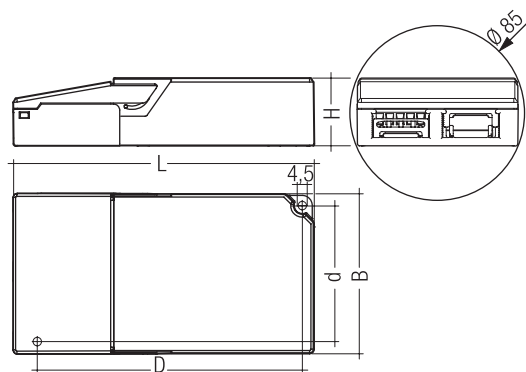
Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Lamp wattage	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point	Ambient temperature ta
									220 V	240 V	220 V	240 V		
For luminaires with 1 lamp														
1 x 28 W	TC-DD	PC 1/28 DD PRO sc	150 mm	139 mm	0.15 kg	25.4 W	28.7 W	A3	0.14 A	0.12 A	0.95	0.95	85 °C	-25 ... 60 °C
1 x 38 W	TC-DD	PC 1/38 DD PRO sc	150 mm	139 mm	0.15 kg	34.6 W	39.7 W	A3	0.19 A	0.17 A	0.96	0.96	85 °C	-25 ... 60 °C
1 x 55 W	TC-DD	PC 1/55 DD PRO sc	150 mm	139 mm	0.16 kg	53.0 W	60.0 W	A3	0.28 A	0.24 A	0.98	0.98	80 °C	-25 ... 60 °C



PC PRO sr, 18 – 42 W

TC-DEL, TC-TEL compact fluorescent lamps



Product description

- Integrated terminal cover and strain relief
 - No tools required for installing
 - Prepared through-wiring
 - Lamp-side and mains-side plug-in terminals
 - Average life = 50,000 hours (at max ta.
with a failure rate $\leq 0.2\%$ per 1,000 hours)
 - Large temperature range (for values see table)
 - Safety shutdown at end of life
 - Automatic start after replacement of defective lamps
 - For emergency lighting systems as per EN 50172
 - Constant luminous flux irrespective of fluctuations in mains voltage
 - For luminaires of protection class 1 and protection class 2
 - For luminaires with F or M and MM as per EN 60598,
VDE 0710 and VDE 0711
 - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (Lamp start ≥ 198 V DC)
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.5 s
Operating frequency	≥ 40 kHz
Type of protection	IP20

Ordering data

Type	Article number
For luminaires with 1 lamp	
PC 1/26/32/42 TCT PRO sr	22176080
For luminaires with 2 lamps	
PC 2/18 TCD PRO sr	22176092
PC 2/26/32/42 TCT PRO sr	22176076

Packaging: 15 pieces/carton, 540 pieces/pallet

Product matrix, page 44

Standards, page 44

Lamp matrix, page 46

Wiring diagrams and installation examples, page 74

Specific technical data

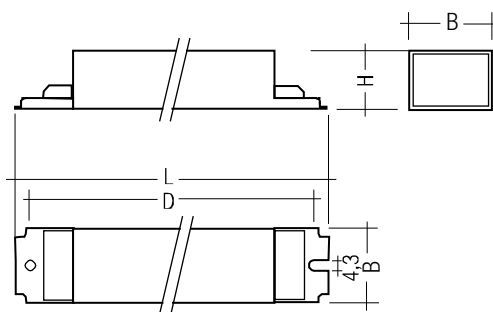
Lamp wattage	Lamp type	Type	Dimensions LxWxH	Hole spacing D	Weight	Lamp wattage	Circuit power	EEL	Current at 50 Hz		λ at 50 Hz		tc point	Ambient temperature ta	
									220 V	240 V	220 V	240 V			
For luminaires with 1 lamp															
1 x 26 W	TC-DEL	PC 1/26/32/42 TCT PRO sr	180 x 79.5 x 34 mm	157.6 mm	0.171 kg	24 W	27.0 W	A2	0.14 A	0.13 A	0.98	0.98	60 °C	-25 ... 50 °C	
1 x 26 W	TC-TEL	PC 1/26/32/42 TCT PRO sr	180 x 79.5 x 34 mm	157.6 mm	0.171 kg	24 W	26.9 W	A2	0.14 A	0.13 A	0.98	0.98	60 °C	-25 ... 50 °C	
1 x 32 W	TC-TEL	PC 1/26/32/42 TCT PRO sr	180 x 79.5 x 34 mm	157.6 mm	0.171 kg	32 W	34.7 W	A2	0.16 A	0.15 A	0.99	0.98	60 °C	-25 ... 50 °C	
1 x 42 W	TC-TEL	PC 1/26/32/42 TCT PRO sr	180 x 79.5 x 34 mm	157.6 mm	0.171 kg	42 W	45.3 W	A2	0.22 A	0.20 A	0.99	0.99	60 °C	-25 ... 50 °C	
For luminaires with 2 lamps															
2 x 18 W	TC-DEL	PC 2/18 TCD PRO sr	180 x 79.5 x 34 mm	157.6 mm	0.173 kg	33 W	36.2 W	A2	0.17 A	0.16 A	0.99	0.98	60 °C	-25 ... 50 °C	
2 x 18 W	TC-TEL	PC 2/18 TCD PRO sr	180 x 79.5 x 34 mm	157.6 mm	0.173 kg	33 W	36.3 W	A2	0.17 A	0.16 A	0.99	0.98	60 °C	-25 ... 50 °C	
2 x 26 W	TC-DEL	PC 2/26/32/42 TCT PRO sr	180 x 79.5 x 34 mm	157.6 mm	0.209 kg	48 W	53.5 W	A2	0.27 A	0.25 A	0.98	0.97	65 °C	-25 ... 50 °C	
2 x 26 W	TC-TEL	PC 2/26/32/42 TCT PRO sr	180 x 79.5 x 34 mm	157.6 mm	0.209 kg	48 W	51.5 W	A2	0.26 A	0.24 A	0.98	0.97	65 °C	-25 ... 50 °C	
2 x 32 W	TC-TEL	PC 2/26/32/42 TCT PRO sr	180 x 79.5 x 34 mm	157.6 mm	0.209 kg	64 W	67.6 W	A2	0.31 A	0.29 A	0.98	0.98	70 °C	-25 ... 50 °C	
2 x 42 W	TC-TEL	PC 2/26/32/42 TCT PRO sr	180 x 79.5 x 34 mm	157.6 mm	0.209 kg	84 W	90.2 W	A2	0.41 A	0.38 A	0.99	0.99	80 °C	-25 ... 50 °C	



PC T8 TOP, 18 – 58 W T8 fluorescent lamps

Product description

- Average life = 50,000 hours (at max ta.
with a failure rate ≤ 0.2 % per 1,000 hours)
 - Large temperature range (for values see table)
 - Safety shutdown at end of life
 - Automatic start after replacement of defective lamps
 - Constant luminous flux irrespective of fluctuations in mains voltage
 - For luminaires of protection class 1 and protection class 2
 - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to www.tridonic.com,
or available on request



Technical data

AC voltage range	198 – 264 V
DC voltage range	Not supported
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.5 s
Operating frequency	≥ 39 kHz
Type of protection	IP20



Product matrix, page 44

Standards, page 44

Lamp matrix, page 46

Wiring diagrams and installation examples, page 74

Ordering data

Type	Article number
For luminaires with 1 lamp	
PC 1/18 T8 TOP	22176366
PC 1/36 T8 TOP	22176370
PC 1/58 T8 TOP	22176373
For luminaires with 2 lamps	
PC 2/18 T8 TOP	22176367
PC 2/36 T8 TOP	22176371
PC 2/58 T8 TOP	22176374
For luminaires with 3 lamps	
PC 3/18 T8 TOP	22176368
PC 3/36 T8 TOP	22176372
For luminaires with 4 lamps	
PC 4/18 T8 TOP	22176369

Packaging 232 mm casing: 25 pieces/carton, 700 pieces/pallet

Packaging 280 mm casing: 25 pieces/carton, 900 pieces/pallet

Packaging 360 mm casing: 20 pieces/carton, 520 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Type	Dimensions LxWxH	Hole spacing D	Weight	Lamp wattage	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point	Ambient temperature ta
									220 V	240 V	220 V	240 V		
For luminaires with 1 lamp														
1 x 18 W	T8	PC 1/18 T8 TOP	280 x 30 x 28 mm	270 mm	0.22 kg	16 W	18.5 W	A2	0.09 A	0.08 A	0.97	0.97	70 °C	-20 ... 50 °C
1 x 36 W	T8	PC 1/36 T8 TOP	280 x 30 x 28 mm	270 mm	0.22 kg	32 W	35.5 W	A2	0.17 A	0.15 A	0.97	0.97	75 °C	-20 ... 50 °C
1 x 58 W	T8	PC 1/58 T8 TOP	280 x 30 x 28 mm	270 mm	0.22 kg	50 W	53.5 W	A2	0.25 A	0.23 A	0.97	0.97	70 °C	-20 ... 50 °C
For luminaires with 2 lamps														
2 x 18 W	T8	PC 2/18 T8 TOP	280 x 30 x 28 mm	270 mm	0.22 kg	32 W	37.7 W	A2	0.18 A	0.16 A	0.97	0.97	70 °C	-20 ... 50 °C
2 x 36 W	T8	PC 2/36 T8 TOP	280 x 30 x 28 mm	270 mm	0.22 kg	64 W	71.5 W	A2	0.34 A	0.31 A	0.97	0.97	75 °C	-20 ... 50 °C
2 x 58 W	T8	PC 2/58 T8 TOP	360 x 30 x 28 mm	350 mm	0.28 kg	100 W	109.0 W	A2	0.51 A	0.46 A	0.97	0.97	75 °C	-20 ... 50 °C
For luminaires with 3 lamps														
3 x 18 W	T8	PC 3/18 T8 TOP	360 x 30 x 28 mm	350 mm	0.27 kg	48 W	56.0 W	A2	0.26 A	0.24 A	0.97	0.97	75 °C	-25 ... 50 °C
3 x 36 W	T8	PC 3/36 T8 TOP	360 x 30 x 28 mm	350 mm	0.28 kg	96 W	110.0 W	A3	0.51 A	0.47 A	0.97	0.97	75 °C	-20 ... 50 °C
For luminaires with 4 lamps														
4 x 18 W	T8	PC 4/18 T8 TOP	232 x 40 x 30 mm	220 mm	0.24 kg	64 W	72.0 W	A2	0.34 A	0.31 A	0.97	0.97	65 °C	-20 ... 50 °C

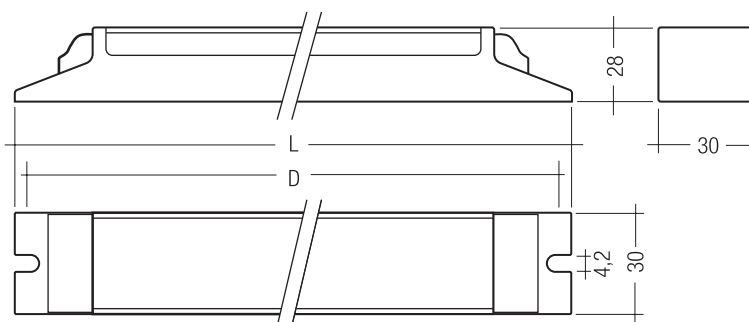
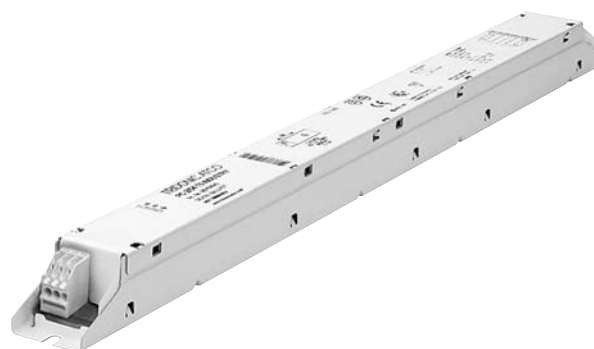


PC INDUSTRY T5, 49 – 80 W

T5 fluorescent lamps

Product description

- Average life = 100,000 hours (at max ta. -10 °C and a failure rate of ≤ 0.1 % per 1,000 hours). Average life = 50,000 hours (at max ta. with a failure rate of ≤ 0.2% per 1,000 hours)
 - Suitable for voltage peaks (burst/surge) up to 4 kV
 - Large temperature range (for values see table)
 - Safety shutdown at end of life
 - Automatic start after replacement of defective lamps
 - For emergency lighting systems as per EN 50172
 - Constant luminous flux irrespective of fluctuations in mains voltage
 - For luminaires of protection class 1 and protection class 2
 - For luminaires with F or M and MM as per EN 60598, VDE 0710 and VDE 0711
 - Insulation Displacement Connection (IDC) terminal for rapid automatic or manual wiring
 - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to www.tridonic.com, or available on request



Technical data

AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (Lamp start ≥ 198 V DC)
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.5 s
Operating frequency	≥ 40 kHz
Type of protection	IP20

Ordering data

Type	Article number
For luminaires with 1 lamp	
PC 1/49 T5 INDUSTRY	86458039
PC 1/54 T5 INDUSTRY	86458041
PC 1/80 T5 INDUSTRY	86458043
For luminaires with 2 lamps	
PC 2/49 T5 INDUSTRY	86458040
PC 2/54 T5 INDUSTRY	86458042
PC 2/80 T5 INDUSTRY	86458044

Packaging: 25 pieces/carton, 500 pieces/pallet



Product matrix, page 44

Standards, page 44

Lamp matrix, page 46

Wiring diagrams and installation examples, page 74

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Lamp wattage	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point	Ambient temperature t _a
									220 V	240 V	220 V	240 V		
For luminaires with 1 lamp														
1 x 49 W	T5	PC 1/49 T5 INDUSTRY	456 mm	445 mm	0.42 kg	49.0 W	56 W	A2	0.27 A	0.25 A	0.96	0.95	77 °C	-30 ... 70 °C
1 x 54 W	T5	PC 1/54 T5 INDUSTRY	456 mm	445 mm	0.42 kg	54.0 W	60 W	A2	0.28 A	0.26 A	0.97	0.96	79 °C	-30 ... 70 °C
1 x 80 W	T5	PC 1/80 T5 INDUSTRY	456 mm	445 mm	0.42 kg	80.0 W	88 W	A2	0.41 A	0.38 A	0.98	0.97	80 °C	-30 ... 70 °C
For luminaires with 2 lamps														
2 x 49 W	T5	PC 2/49 T5 INDUSTRY	456 mm	445 mm	0.42 kg	98.0 W	107 W	A2	0.50 A	0.46 A	0.98	0.97	77 °C	-30 ... 70 °C
2 x 54 W	T5	PC 2/54 T5 INDUSTRY	456 mm	445 mm	0.42 kg	106.5 W	115 W	A2	0.51 A	0.48 A	0.99	0.97	79 °C	-30 ... 70 °C
2 x 80 W	T5	PC 2/80 T5 INDUSTRY	456 mm	445 mm	0.42 kg	160.0 W	172 W	A2	0.79 A	0.73 A	0.99	0.98	84 °C	-30 ... 60 °C

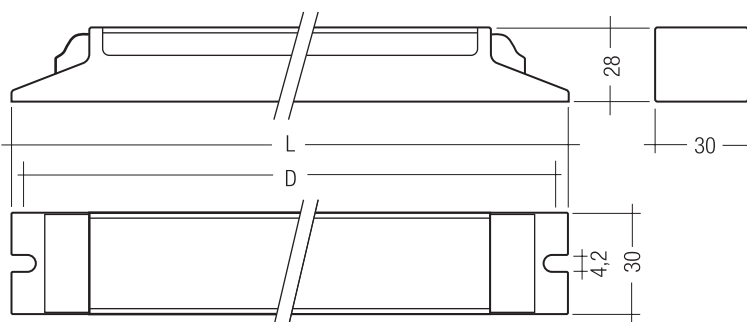
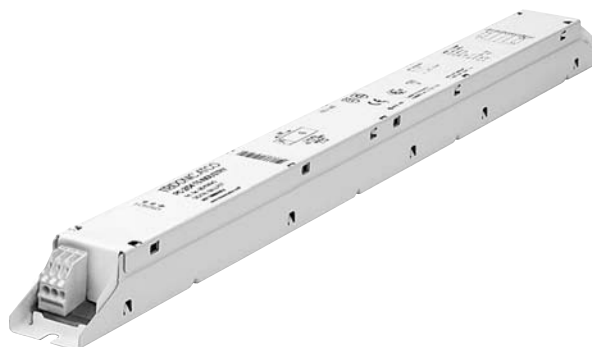


PC INDUSTRY T8, 36 – 58 W

T8 fluorescent lamps

Product description

- Average life = 100,000 hours (at max ta. -10 °C and a failure rate of ≤ 0.1 % per 1,000 hours). Average life = 50,000 hours (at max ta. with a failure rate of ≤ 0.2% per 1,000 hours)
 - Suitable for voltage peaks (burst/surge) up to 4 kV
 - Large temperature range (for values see table)
 - Safety shutdown at end of life
 - Automatic start after replacement of defective lamps
 - For emergency lighting systems as per EN 50172
 - Constant luminous flux irrespective of fluctuations in mains voltage
 - For luminaires of protection class 1 and protection class 2
 - For luminaires with F or M and MM as per EN 60598, VDE 0710 and VDE 0711
 - Insulation Displacement Connection (IDC) terminal for rapid automatic or manual wiring
 - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to www.tridonic.com, or available on request



Technical data

AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (Lamp start ≥ 198 V DC)
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.5 s
Operating frequency	≥ 40 kHz
Type of protection	IP20

Ordering data

Type	Article number
For luminaires with 1 lamp	
PC 1/36 T8 INDUSTRY	86458035
PC 1/58 T8 INDUSTRY	86458037
For luminaires with 2 lamps	
PC 2/36 T8 INDUSTRY	86458036
PC 2/58 T8 INDUSTRY	86458038

Packaging: 25 pieces/carton, 500 pieces/pallet



Product matrix, page 44

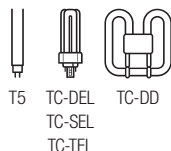
Standards, page 44

Lamp matrix, page 46

Wiring diagrams and installation examples, page 74

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Lamp wattage	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point	Ambient temperature ta
									220 V	240 V	220 V	240 V		
For luminaires with 1 lamp														
1 x 36 W	T8	PC 1/36 T8 INDUSTRY	456 mm	445 mm	0.42 kg	32 W	36.5 W	A2	0.17 A	0.16 A	0.96	0.94	76 °C	-30 ... 70 °C
1 x 58 W	T8	PC 1/58 T8 INDUSTRY	456 mm	445 mm	0.42 kg	50 W	55.5 W	A2	0.26 A	0.24 A	0.97	0.96	80 °C	-30 ... 70 °C
For luminaires with 2 lamps														
2 x 36 W	T8	PC 2/36 T8 INDUSTRY	456 mm	445 mm	0.42 kg	64 W	74.5 W	A2	0.35 A	0.32 A	0.97	0.97	82 °C	-30 ... 70 °C
2 x 58 W	T8	PC 2/58 T8 INDUSTRY	456 mm	445 mm	0.42 kg	100 W	108.0 W	A2	0.50 A	0.46 A	0.98	0.98	83 °C	-30 ... 70 °C

**PC BASIC, 4 – 18 W**

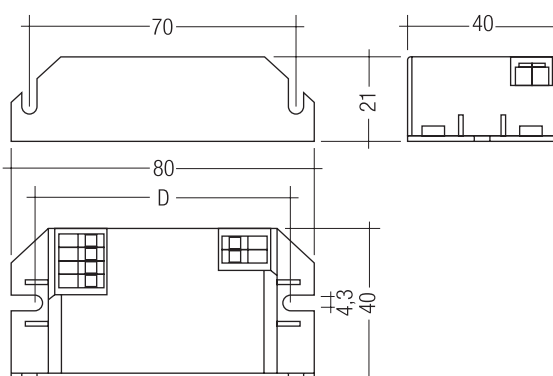
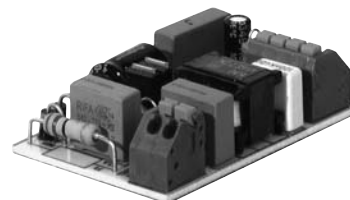
T5, T8 and compact (CFL) and T5c circular fluorescent lamps

Product description

- Average life = 50,000 hours (at max ta.
with a failure rate $\leq 0.2\%$ per 1,000 hours)
 - Large temperature range (for values see table)
 - Safety shutdown at end of life
 - Automatic start after replacement of defective lamps
 - Safety shutdown at end of life
 - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

AC voltage range	198 – 264 V
DC voltage range	176 – 264 V (Lamp start ≥ 198 V DC)
Overvoltage protection	270 V AC, 360 h
Defined warm start	≤ 2 s
Operating frequency	≥ 40 kHz
Lamp switching cycles	> 25,000
Type of protection	IP20 (except PCB versions)

**Ordering data**

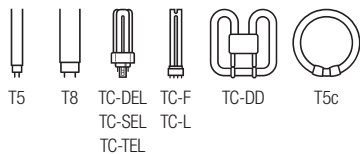
Type	Article number
For luminaires with 1 lamp	
PC 1x4-13 W BASIC	24138831
PC 1x5-16 W BASIC	24138830
PC 1x5-16 W BASIC PCB Printed circuit board without case	24138836
PC 1x18 W BASIC	24138829
PC 1x18 W BASIC PCB Printed circuit board without case	24138835
PC 1x26 W BASIC	22176208

Packaging: 25 pieces/carton, 800 pieces/pallet

Specific technical data

Typical technical data														
Lamp wattage	Lamp type	Type	Dimensions LxWxH	Hole spacing D	Weight	Lamp wattage	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point	Ambient temperature ta
									220 V	240 V	220 V	240 V		
For luminaires with 1 lamp														
1 x 4 W	T5	PC 1x4-13 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.042 kg	3.5 W	5.0 W	A2	0.045 A	0.043 A	0.51	0.48	80 °C	-25 ... 50 °C
1 x 6 W	T5	PC 1x4-13 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.042 kg	5.0 W	7.0 W	A2	0.059 A	0.057 A	0.54	0.51	80 °C	-25 ... 50 °C
1 x 8 W	T5	PC 1x4-13 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.042 kg	6.5 W	8.5 W	A2	0.067 A	0.063 A	0.58	0.56	80 °C	-25 ... 50 °C
1 x 13 W	T5	PC 1x4-13 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.042 kg	11.0 W	15.5 W	A3	0.114 A	0.106 A	0.62	0.61	80 °C	-25 ... 50 °C
1 x 10 W	TC-DD	PC 1x4-13 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.042 kg	9.0 W	11.5 W	A3	0.087 A	0.081 A	0.60	0.59	80 °C	-25 ... 50 °C
1 x 16 W	TC-DD	PC 1x5-16 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.042 kg	14.0 W	18.0 W	A3	0.130 A	0.121 A	0.63	0.62	85 °C	-25 ... 50 °C
1 x 10 W	TC-DEL	PC 1x5-16 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.042 kg	8.5 W	11.5 W	A3	0.089 A	0.084 A	0.59	0.57	85 °C	-25 ... 50 °C
1 x 13 W	TC-DEL	PC 1x5-16 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.042 kg	12.0 W	15.5 W	A3	0.112 A	0.106 A	0.63	0.61	85 °C	-25 ... 50 °C
1 x 5 W	TC-SEL	PC 1x5-16 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.042 kg	4.5 W	6.5 W	A2	0.055 A	0.051 A	0.54	0.53	85 °C	-25 ... 50 °C
1 x 7 W	TC-SEL	PC 1x5-16 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.042 kg	6.0 W	8.0 W	A2	0.065 A	0.063 A	0.56	0.53	85 °C	-25 ... 50 °C
1 x 9 W	TC-SEL	PC 1x5-16 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.042 kg	7.5 W	10.0 W	A2	0.078 A	0.073 A	0.58	0.57	85 °C	-25 ... 50 °C
1 x 11 W	TC-SEL	PC 1x5-16 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.042 kg	11.0 W	15.0 W	A3	0.110 A	0.104 A	0.62	0.60	85 °C	-25 ... 50 °C
1 x 13 W	TC-TEL	PC 1x5-16 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.042 kg	11.5 W	15.5 W	A3	0.112 A	0.106 A	0.63	0.61	85 °C	-25 ... 50 °C
		PC 1x5-16 W BASIC PCB	56.6 x 36.5 x 17 mm		0.028 kg				in preparation					
1 x 18 W	TC-DEL	PC 1x18 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.042 kg	15.5 W	19.0 W	A3	0.135 A	0.128 A	0.64	0.62	85 °C	-25 ... 50 °C
1 x 18 W	TC-TEL	PC 1x18 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.042 kg	15.0 W	19.0 W	A3	0.135 A	0.128 A	0.64	0.62	85 °C	-25 ... 50 °C
		PC 1x18 W BASIC PCB	56.6 x 36.5 x 17 mm		0.028 kg				in preparation					
1 x 28 W	TC-DD	PC 1x26 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.024 kg	21.5 W	25.0 W	A2	0.180 A	0.170 A	0.62	0.61	80 °C	-25 ... 45 °C
1 x 26 W	TC-DEL	PC 1x26 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.024 kg	20.5 W	24.0 W	A2	0.180 A	0.170 A	0.62	0.61	80 °C	-25 ... 50 °C
1 x 26 W	TC-TEL	PC 1x26 W BASIC	80.0 x 40.0 x 21 mm	70 mm	0.024 kg	21.0 W	24.5 W	A2	0.180 A	0.170 A	0.62	0.61	80 °C	-25 ... 50 °C

^① For enclosed luminaires to fulfil the requirement of circuit power ≤ 25 W according to EN 61000-3-2. For AC operation only



PC BASIC sl, 4 – 28 W

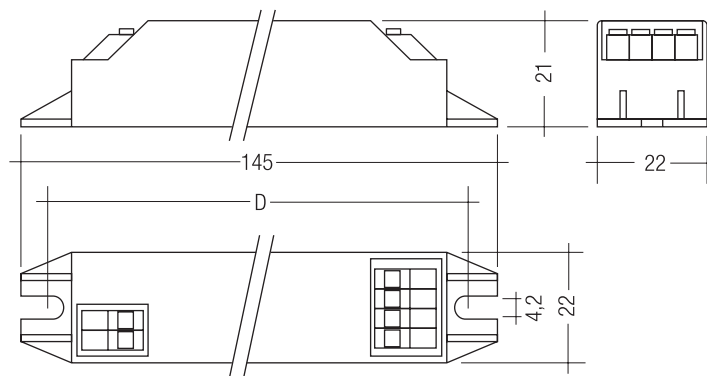
T5, T8 and compact (CFL) and T5c circular fluorescent lamps

Product description

- Average life = 50,000 hours (at max ta.
with a failure rate ≤ 0.2 % per 1,000 hours)
 - Large temperature range (for values see table)
 - Safety shutdown at end of life
 - Automatic start after replacement of defective lamps
 - Safety shutdown at end of life
 - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

AC voltage range	198 – 264 V
DC voltage range	176 – 264 V (Lamp start ≥ 198 V DC)
Overvoltage protection	270 V AC, 360 h
Defined warm start	≤ 2 s
Operating frequency	≥ 40 kHz
Lamp switching cycles	$> 25,000$
Type of protection	IP20



Product matrix, page 44

Standards, page 44

Lamp matrix, page 46

Wiring diagrams and installation examples, page 74

Ordering data

Type	Article number
For luminaires with 1 lamp	
PC 1x4-13 W BASIC sl	24138834
PC 1x5-16 W BASIC sl	24138833
PC 1x18 W BASIC sl	24138832
PC 1x18-24 W BASIC sl	22176000
PC 1x14-21 W BASIC sl	22176001
PC 1x26 W BASIC sl	22176002

Packaging: 25 pieces/carton, 900 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Type	Dimensions LxWxH	Hole spacing D	Weight	Lamp wattage	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point	Ambient temperature ta
									220 V	240 V	220 V	240 V		
For luminaires with 1 lamp														
1 x 4 W	T5	PC 1x4-13 W BASIC sl	145 x 22 x 21 mm	136 mm	0.044 kg	3.5 W	5.0 W	A2	0.045 A	0.043 A	0.51	0.48	85 °C	-25 ... 60 °C
1 x 6 W	T5	PC 1x4-13 W BASIC sl	145 x 22 x 21 mm	136 mm	0.044 kg	5.0 W	7.0 W	A2	0.059 A	0.057 A	0.54	0.51	85 °C	-25 ... 60 °C
1 x 8 W	T5	PC 1x4-13 W BASIC sl	145 x 22 x 21 mm	136 mm	0.044 kg	6.5 W	8.5 W	A2	0.067 A	0.063 A	0.58	0.56	85 °C	-25 ... 60 °C
1 x 13 W	T5	PC 1x4-13 W BASIC sl	145 x 22 x 21 mm	136 mm	0.044 kg	11.0 W	15.5 W	A3	0.114 A	0.106 A	0.62	0.61	85 °C	-25 ... 60 °C
1 x 10 W	TC-DD	PC 1x4-13 W BASIC sl	145 x 22 x 21 mm	136 mm	0.044 kg	9.0 W	11.5 W	A3	0.087 A	0.081 A	0.60	0.59	85 °C	-25 ... 60 °C
1 x 16 W	TC-DD	PC 1x5-16 W BASIC sl	145 x 22 x 21 mm	136 mm	0.044 kg	14.0 W	18.0 W	A3	0.130 A	0.121 A	0.63	0.62	90 °C	-25 ... 60 °C
1 x 10 W	TC-DEL	PC 1x5-16 W BASIC sl	145 x 22 x 21 mm	136 mm	0.044 kg	8.5 W	11.5 W	A3	0.089 A	0.084 A	0.59	0.57	90 °C	-25 ... 60 °C
1 x 13 W	TC-DEL	PC 1x5-16 W BASIC sl	145 x 22 x 21 mm	136 mm	0.044 kg	11.8 W	15.5 W	A3	0.112 A	0.106 A	0.63	0.61	90 °C	-25 ... 60 °C
1 x 5 W	TC-SEL	PC 1x5-16 W BASIC sl	145 x 22 x 21 mm	136 mm	0.044 kg	4.5 W	6.5 W	A2	0.055 A	0.051 A	0.54	0.53	90 °C	-25 ... 60 °C
1 x 7 W	TC-SEL	PC 1x5-16 W BASIC sl	145 x 22 x 21 mm	136 mm	0.044 kg	6.0 W	8.0 W	A2	0.065 A	0.063 A	0.56	0.53	90 °C	-25 ... 60 °C
1 x 9 W	TC-SEL	PC 1x5-16 W BASIC sl	145 x 22 x 21 mm	136 mm	0.044 kg	7.5 W	10.0 W	A2	0.078 A	0.073 A	0.58	0.57	90 °C	-25 ... 60 °C
1 x 11 W	TC-SEL	PC 1x5-16 W BASIC sl	145 x 22 x 21 mm	136 mm	0.044 kg	11.0 W	15.0 W	A3	0.110 A	0.104 A	0.62	0.60	90 °C	-25 ... 60 °C
1 x 13 W	TC-TEL	PC 1x5-16 W BASIC sl	145 x 22 x 21 mm	136 mm	0.044 kg	12.0 W	15.5 W	A3	0.112 A	0.106 A	0.63	0.61	90 °C	-25 ... 60 °C
1 x 18 W	TC-DEL	PC 1x18 W BASIC sl	145 x 22 x 21 mm	136 mm	0.044 kg	15.5 W	19.0 W	A3	0.135 A	0.128 A	0.64	0.62	90 °C	-25 ... 60 °C
1 x 18 W	TC-TEL	PC 1x18 W BASIC sl	145 x 22 x 21 mm	136 mm	0.044 kg	15.0 W	19.0 W	A3	0.135 A	0.128 A	0.64	0.62	90 °C	-25 ... 60 °C
1 x 24 W	T5	PC 1x18-24 W BASIC sl	145 x 22 x 21 mm	136 mm	0.055 kg	21.5 W	25.0 W	A2	0.180 A	0.170 A	0.62	0.61	85 °C	-25 ... 60 °C
1 x 22 W	T5c	PC 1x18-24 W BASIC sl	145 x 22 x 21 mm	136 mm	0.055 kg	21.5 W	23.5 W	A2	0.180 A	0.170 A	0.62	0.61	85 °C	-25 ... 60 °C
1 x 18 W	T8	PC 1x18-24 W BASIC sl	145 x 22 x 21 mm	136 mm	0.055 kg	15.5 W	18.0 W	A2	0.140 A	0.130 A	0.60	0.58	85 °C	-25 ... 60 °C
1 x 18 W	TC-F	PC 1x18-24 W BASIC sl	145 x 22 x 21 mm	136 mm	0.055 kg	13.0 W	16.0 W	A2	0.120 A	0.120 A	0.68	0.57	85 °C	-25 ... 60 °C
1 x 24 W	TC-F	PC 1x18-24 W BASIC sl	145 x 22 x 21 mm	136 mm	0.055 kg	19.0 W	22.5 W	A3	0.170 A	0.150 A	0.61	0.60	85 °C	-25 ... 60 °C
1 x 18 W	TC-L	PC 1x18-24 W BASIC sl	145 x 22 x 21 mm	136 mm	0.055 kg	14.0 W	16.5 W	A2	0.130 A	0.120 A	0.59	0.58	85 °C	-25 ... 60 °C
1 x 24 W	TC-L	PC 1x18-24 W BASIC sl	145 x 22 x 21 mm	136 mm	0.055 kg	21.5 W	24.0 W	A3	0.180 A	0.170 A	0.62	0.61	85 °C	-25 ... 60 °C
1 x 14 W	T5	PC 1x14-21 W BASIC sl	145 x 22 x 21 mm	136 mm	0.055 kg	12.5 W	14.5 W	A2	0.117 A	0.120 A	0.58	0.57	85 °C	-25 ... 60 °C
1 x 21 W	T5	PC 1x14-21 W BASIC sl	145 x 22 x 21 mm	136 mm	0.055 kg	17.5 W	20.0 W	A2	0.147 A	0.151 A	0.60	0.60	85 °C	-25 ... 60 °C
1 x 28 W	TC-DD	PC 1x26 W BASIC sl	145 x 22 x 21 mm	136 mm	0.055 kg	21.5 W	25.0 W	A2	0.180 A	0.170 A	0.62	0.61	90 °C	-25 ... 50 °C
1 x 26 W	TC-DEL	PC 1x26 W BASIC sl	145 x 22 x 21 mm	136 mm	0.055 kg	20.5 W	24.0 W	A2	0.180 A	0.170 A	0.62	0.61	90 °C	-25 ... 60 °C
1 x 26 W	TC-TEL	PC 1x26 W BASIC sl	145 x 22 x 21 mm	136 mm	0.055 kg	21.0 W	24.5 W	A2	0.180 A	0.170 A	0.62	0.61	90 °C	-25 ... 60 °C

① For enclosed luminaires to fulfil the requirement of circuit power ≤ 25 W according to EN 61000-3-2. For AC operation only.



PC BASIC sl, 8 W

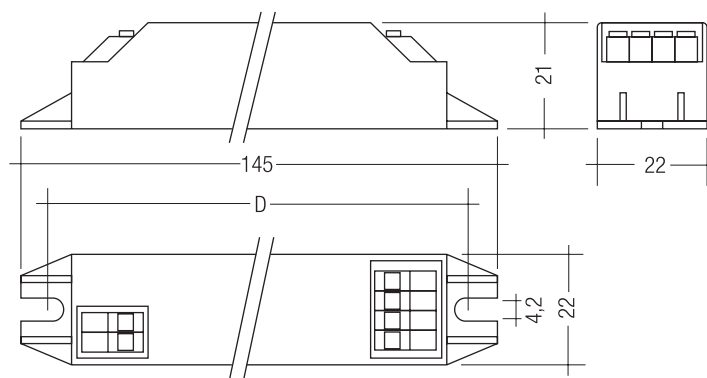
T5 fluorescent lamps

Product description

- For emergency lighting systems as per EN 50172
 - Average life = 50,000 hours (at max ta.
with a failure rate ≤ 0.2 % per 1,000 hours)
 - Large temperature range (for values see table)
 - Safety shutdown at end of life
 - Automatic start after replacement of defective lamps
 - Safety shutdown at end of life
 - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

AC voltage range	198 – 264 V
DC voltage range	176 – 264 V (Lamp start ≥ 198 V DC)
Overvoltage protection	270 V AC, 360 h
Defined warm start	≤ 1 s
Operating frequency	≥ 40 kHz
Lamp switching cycles	> 25,000
Type of protection	IP20



Product matrix, page 44

Standards, page 44

Lamp matrix, page 46

Wiring diagrams and installation examples, page 74

Ordering data

Type	Article number
For luminaires with 1 lamp	
PC 1x8 W BASIC sl	22176026

Packaging: 25 pieces/carton, 900 pieces/pallet

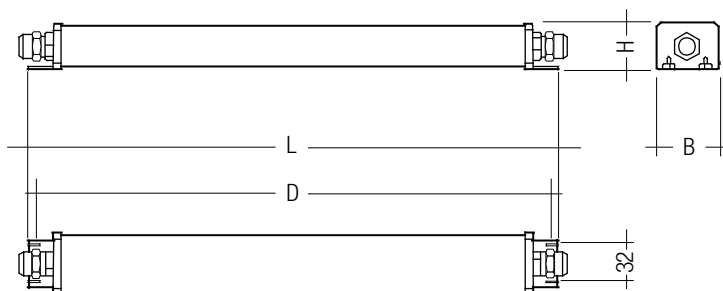
Specific technical data

Lamp wattage	Lamp type	Type	Dimensions LxWxH	Hole spacing D	Weight	Lamp wattage	Circuit power	EEL	Current at 50 Hz		λ at 50 Hz		tc point	Ambient temperature ta
									220 V	240 V	220 V	240 V		
1 x 8 W	T5	PC 1x8 W BASIC sl	145 x 22 x 21 mm	136 mm	0.055 kg	6.8 W	8.7 W	A2	0.075 A	0.071 A	0.53	0.51	80 °C	-25 ... 60 °C

IP 44 KIT Installation

Product description

- Protective casing for electronic ballasts
 - For outdoor applications with high relative humidity
 - IP 4x = protected against solid objects over 1 mm
 - IP x4 = splash-proof
- For product data sheet go to www.tridonic.com, or available on request



Ordering data

Dimensions LxWxH	Distance between mounting holes (D)	Type	Article number
345 x 53 x 39 mm	335 mm	IP 44 KIT SHORT	24138842
520 x 53 x 39 mm	510 mm	IP 44 KIT LONG	24166189

Packaging: 40 pieces/carton, 480 pieces/pallet

PC compact gear box Installation

Product description

- Box for compact electronic ballasts
 - Surface mounted casing for all compact casing sizes in the „fixed output“, „dimming“ and „emergency lighting“ product ranges (except PC BASIC)
 - No tools required for installing
 - 2 cable clamps on the mains side
 - Suitable for through-wiring
 - Slot for luminaire terminal
 - Fixing option on the mains side
 - Ideal for ceiling openings of diameter ≥ 150 mm and for mounting depths ≥ 100 mm
 - Available as upper and lower sections
- For product data sheet go to www.tridonic.com, or available on request



Ordering data

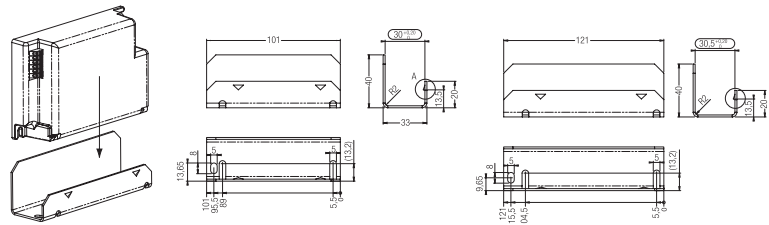
dimensions LxWxH	Type	Article number
278 x 114 x 55 mm	PC Ballast box, upper section	24138824
278 x 114 x 55 mm	PC Ballast box, lower section	24138825

Mounting bracket

Installation

Product description

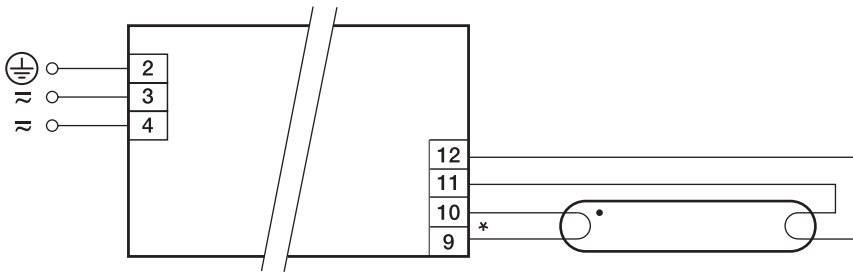
- Fixing bracket for side mounting of compact electronic ballasts
 - Fixing bracket L103 for casing size 103 x 67 x 31 mm
 - Fixing bracket L123 for casing size 123 x 79 x 31 mm
- For product data sheet go to www.tridonic.com, or available on request



Ordering data

Type	Article number
Befestigungsbügel L103	04635096
Befestigungsbügel L123	04635080

PC T5 PRO Ip 1x14–80 W



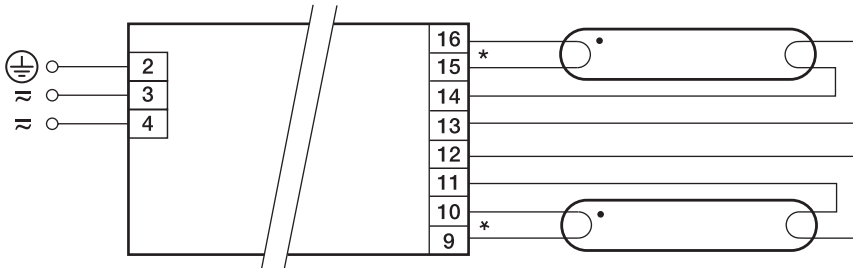
* Leads 9, 10 max. 1.0 m (< 100 pF)

Leads 11, 12 max. 2.0 m (< 200 pF)

For luminaires of protection class 1: Earthing via ECG casing or earth terminal (to IEC 60598)

For luminaires of protection class 2: No earthing required

PC T5 PRO Ip 2x14–80 W



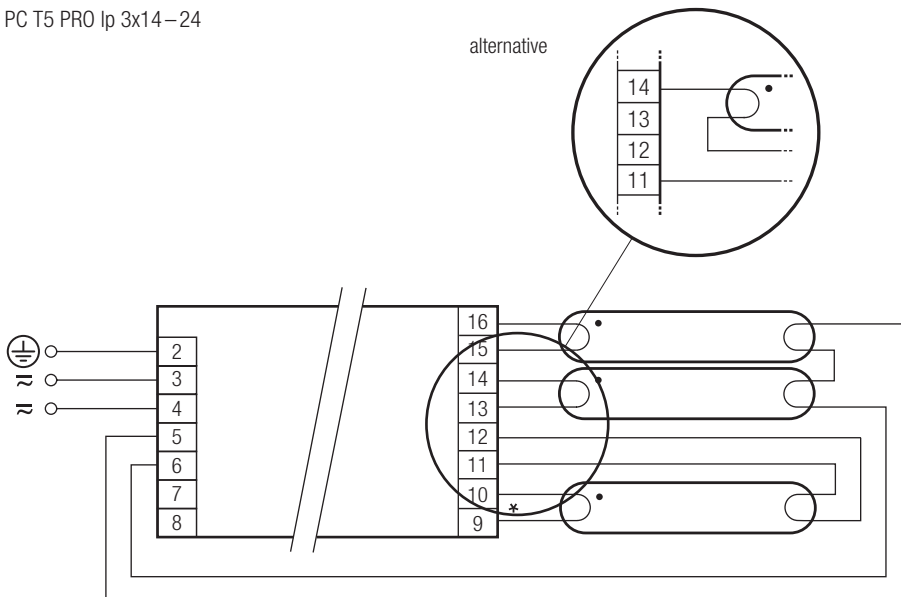
* Leads 9, 10, 15, 16 max. 1.0 m (< 100 pF)

Leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)

For luminaires of protection class 1: Earthing via ECG casing (to IEC 60598)

For luminaires of protection class 2: No earthing required

PC T5 PRO Ip 3x14–24



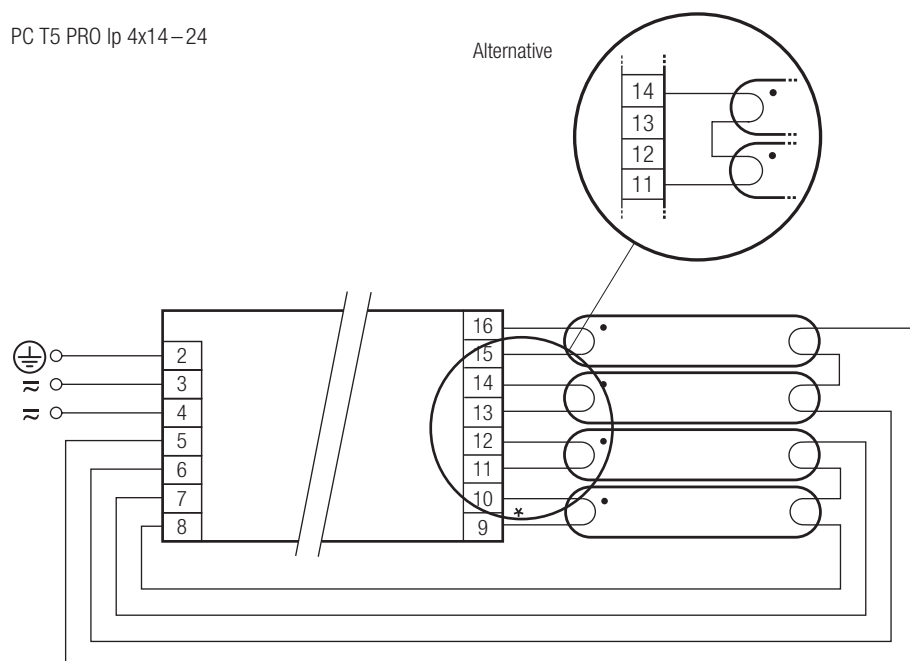
* Leads 9, 10 max. 1.0 m (< 100 pF)

Leads 5, 6, 7, 8, 11, 12, 13, 14, 15, 16 max. 2.0 m (< 200 pF)

For luminaires of protection class 1: Earthing via ECG casing (to IEC 60598)

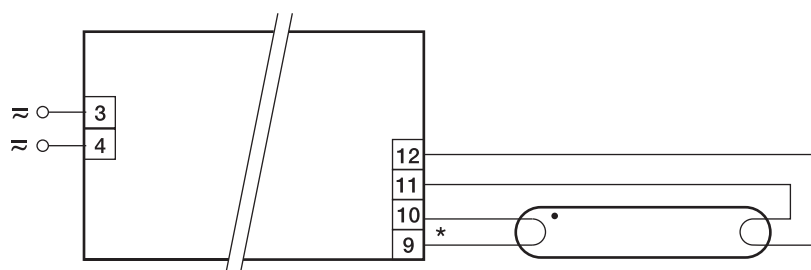
For luminaires of protection class 2: No earthing required

PC T5 PRO Ip 4x14–24



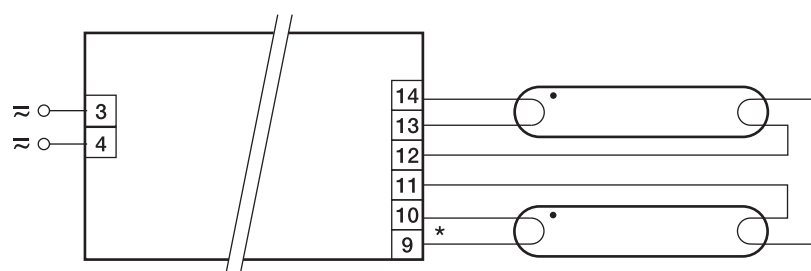
- * Leads 9, 10 max. 1.0 m (< 100 pF)
- Leads 5, 6, 7, 8, 11, 12, 13, 14, 15, 16 max. 2.0 m (< 200 pF)
- For luminaires of protection class 1: Earthing via ECG casing (to IEC 60598)
- For luminaires of protection class 2: No earthing required

PC T8 PRO 1x18–70 W + PC TCL PRO 1x18–55 W



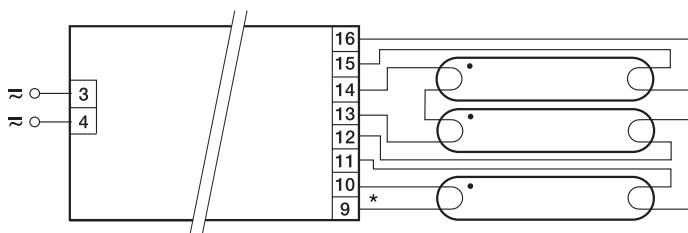
- * Leads 9, 10 max. 1.0 m (< 100 pF)
- Leads 11, 12 max. 2.0 m (< 200 pF)
- For luminaires of protection class 1: Earthing via ECG casing (to IEC 60598)
- For luminaires of protection class 2: No earthing required

PC T8 PRO 2x18–70 W + PC TCL PRO 2x18–55 W



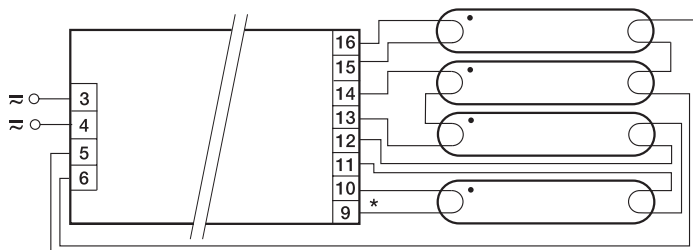
- * Leads 9, 10 max. 1.0 m (< 100 pF)
- Leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)
- For luminaires of protection class 1: Earthing via ECG casing (to IEC 60598)
- For luminaires of protection class 2: No earthing required

PC T8 PRO 3x18–36 W



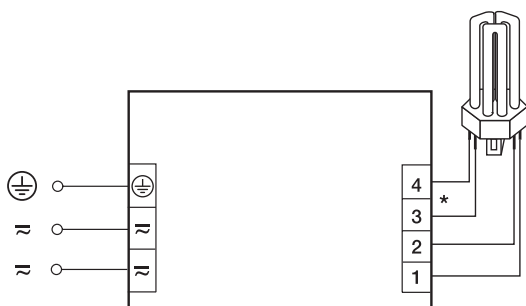
- * Leads 9, 10 max. 1.0 m (< 100 pF)
- Leads 11, 12, 13, 14, 15, 16 max. 2.0 m (< 200 pF)
- For luminaires of protection class 1: Earthing via ECG casing (to IEC 60598)
- For luminaires of protection class 2: No earthing required

PC T8 PRO 4x18 W



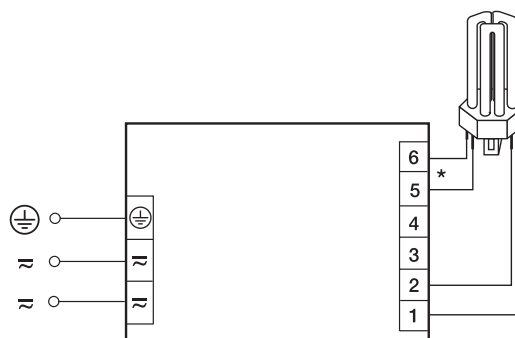
- * Leads 9, 10 max. 1.0 m (< 100 pF)
- Leads 5, 6, 11, 12, 13, 14, 15, 16 max. 2.0 m (< 200 pF)
- For luminaires of protection class 1: Earthing via ECG casing (to IEC 60598)
- For luminaires of protection class 2: No earthing required

PC PRO 1x9–42 W



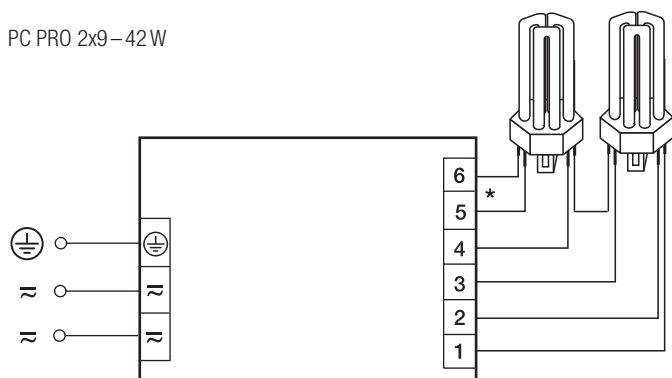
- * Leads 3, 4 max. 1.0 m (< 100 pF)
- Leads 1, 2 max. 2.0 m (< 200 pF)
- For luminaires of protection class 1: Earthing via earth terminal (to IEC 60598)
- For luminaires of protection class 2: No earthing required

PC PRO 1x57/70 W



- * Leads 5, 6 max. 1.0 m (< 100 pF)
- Leads 1, 2 max. 2.0 m (< 200 pF)
- For luminaires of protection class 1: Earthing via earth terminal (to IEC 60598)
- For luminaires of protection class 2: No earthing required

PC PRO 2x9–42 W



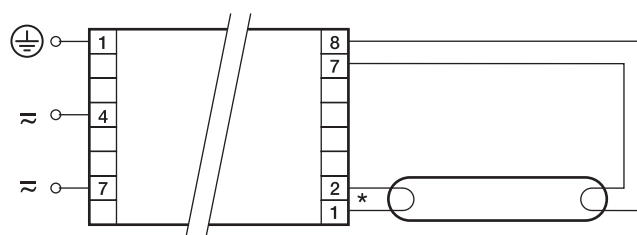
* Leads 5, 6 max. 1.0 m (< 100 pF)

Leads 1, 2, 3, 4 max. 2.0 m (< 200 pF)

For luminaires of protection class 1: Earthing via earth terminal (to IEC 60598)

For luminaires of protection class 2: No earthing required

PC DD PRO 28–55 W



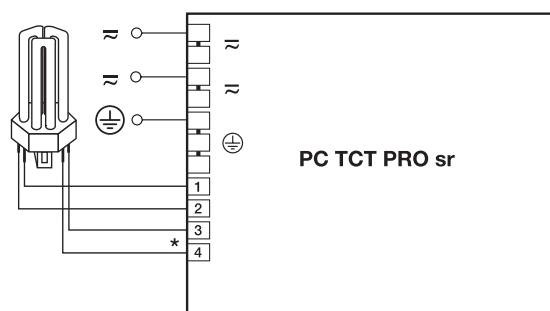
* Leads 1, 2 max. 1.0 m (< 100 pF)

Leads 7, 8 max. 2.0 m (< 200 pF)

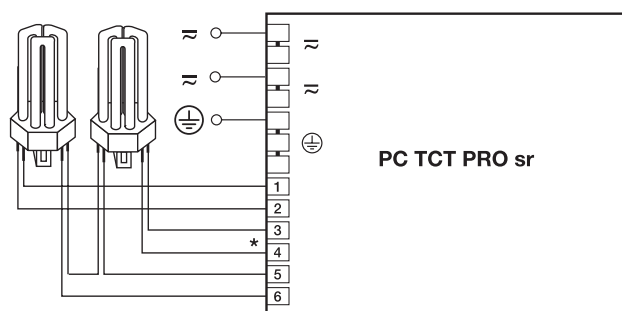
For luminaires of protection class 1: Earthing via ECG casing or earth terminal (to IEC 60598)

For luminaires of protection class 2: No earthing required

PC PRO sr 1x26–42 W



PC PRO sr 2x18–42 W



* Leads 3, 4 max. 1.0 m (< 100 pF)

Leads 1, 2 max. 2.0 m (< 200 pF)

For luminaires of protection class 1: Earthing via earth terminal (to IEC 60598)

For luminaires of protection class 2: No earthing required

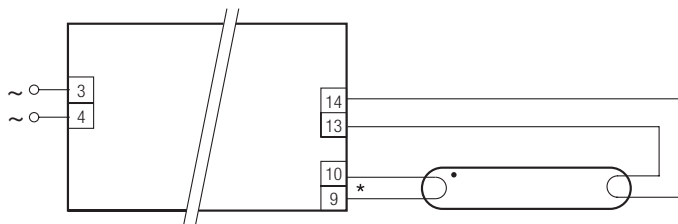
* Leads 3, 4 max. 1.0 m (< 100 pF)

Leads 1, 2, 5, 6 max. 2.0 m (< 200 pF)

For luminaires of protection class 1: Earthing via earth terminal (to IEC 60598)

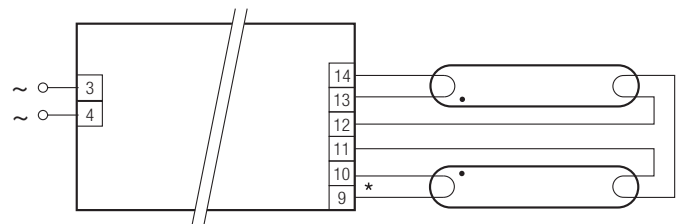
For luminaires of protection class 2: No earthing required

PC T8 TOP 18–58 W



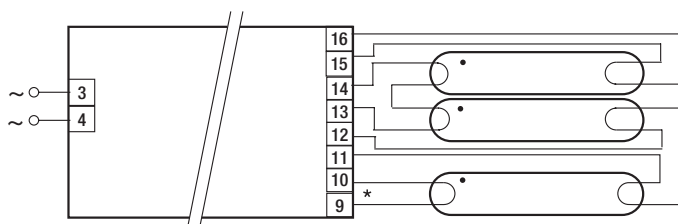
- * Leads 9, 10 max. 1.0 m (< 100 pF)
- Leads 13, 14 max. 2.0 m (< 200 pF)
- For luminaires of protection class 1: Earthing via ECG casing (to IEC 60598)
- For luminaires of protection class 2: No earthing required

PC T8 TOP 2x18–58 W



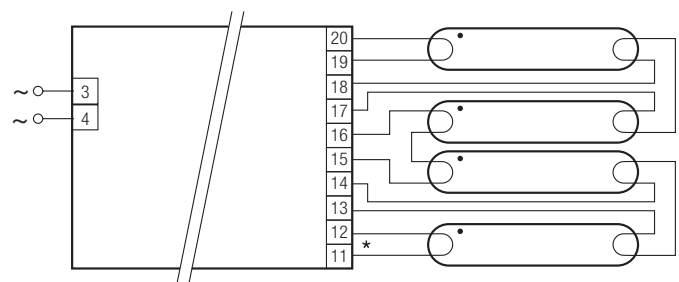
- * Leads 9, 10 max. 1.0 m (< 100 pF)
- Leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)
- For luminaires of protection class 1: Earthing via ECG casing (to IEC 60598)
- For luminaires of protection class 2: No earthing required

PC T8 TOP 3x18–36 W



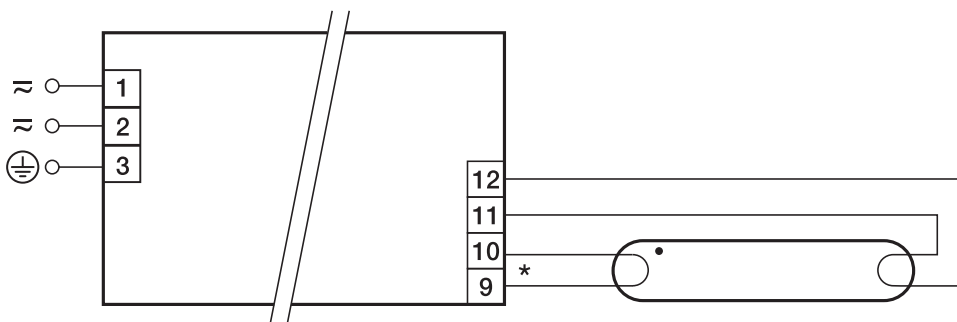
- * Leads 9, 10 max. 1.0 m (< 100 pF)
- Leads 11, 12, 13, 14, 15, 16 max. 2.0 m (< 200 pF)
- For luminaires of protection class 1: Earthing via ECG casing (to IEC 60598)
- For luminaires of protection class 2: No earthing required

PC T8 TOP 4x18 W



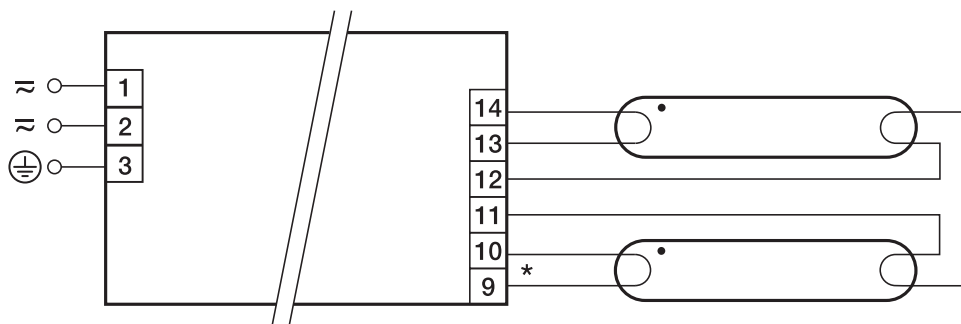
- * Leads 11, 12, 14, 16, 18 max. 1.0 m (< 100 pF)
- Leads 13, 14, 15, 16, 17, 18, 19, 20 max. 2.0 m (< 200 pF)
- For luminaires of protection class 1: Earthing via ECG casing (to IEC 60598)
- For luminaires of protection class 2: No earthing required

PC T8 INDUSTRY 1x36–58 W + PC T5 INDUSTRY 1x49–80 W



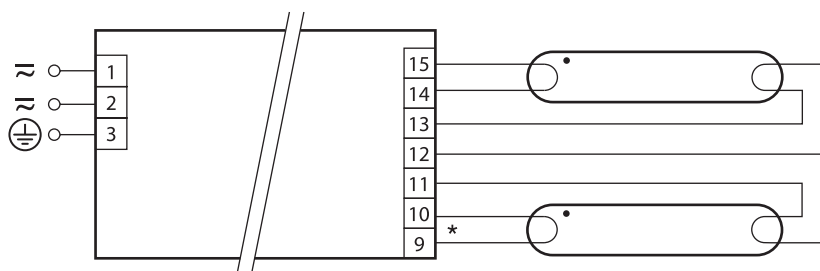
- * Leads 9, 10 max. 1.0 m (< 100 pF)
- Leads 11, 12 max. 2.0 m (< 200 pF)
- For luminaires of protection class 1: Earthing via ECG casing or earth terminal (to IEC 60598)
- For luminaires of protection class 2: No earthing required

PC T8 INDUSTRY 2x36 – 58 W



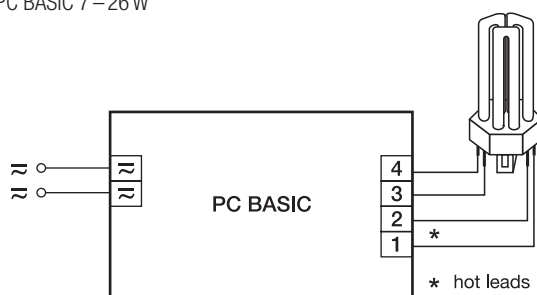
- * Leads 9, 10 max. 1.0 m (< 100 pF)
- Leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)
- For luminaires of protection class 1: Earthing via ECG casing or earth terminal (to IEC 60598)
- For luminaires of protection class 2: No earthing required

PC T5 INDUSTRY 2x49 – 80 W



- * Leads 9, 10 max. 1.0 m (< 100 pF)
- Leads 11, 12, 13, 14, 15 max. 2.0 m (< 200 pF)
- For luminaires of protection class 1: Earthing via ECG casing or earth terminal (to IEC 60598)
- For luminaires of protection class 2: No earthing required

PC BASIC 7 – 26 W



- * Leads 1, 2 max. 0.5 m (< 60 pF)
- Leads 3, 4 max. 1.0 m (< 120 pF)

Overview Page 84

Product overview Page 84

Dimming feature list Page 86

Standards Page 86

Product information Page 88

Digital dimmable ballasts for fluorescent lamps Page 88

Dimmable ECG for
local applications
such as switchDIM,
corridorFUNCTION
or central DSI
applications

Series ECO

Suitable for lamp type

T5 linear lamps

PCA T5 ECO Ip xitec 14 – 80 W Page 94

PCA T5 ECO Ip xitec 3x14/24 W and 4x14/24 W Page 96

T8 linear lamps

PCA T8 ECO 18 – 38 W Page 97

PCA T8 ECO Ip xitec 36 – 58 W Page 98

PCA T8 ECO 3/18 W and 4/18 W Page 100

Compact lamps (CFL) and T5c circular fluorescent lamp

PCA TCL ECO 18 – 80 W Page 101

PCA TCL ECO Ip xitec 55 W Page 103

PCA TCL ECO c 18 – 24 W Page 104

PCA TCD/TCT ECO 11 – 57 W Page 106

PCA TC-DD ECO 55 W Page 108

PCA T5c ECO 22 – 55 W Page 109

Series EXCITE

T5 linear lamps

PCA T5 EXCITE Ip xitec 14 – 80 W Page 110

Series EXCEL one4all

T5 linear lamps

PCA T5 EXCEL one4all Ip xitec 14 – 80 W Page 112

PCA T5 EXCEL one4all 2/54 W Page 114

PCA T5 EXCEL one4all Ip xitec 3x14/24 W and 4x14/24 W Page 115

PCA T5 EXCEL one4all Ip 2/28 W Page 117

T8 linear lamps

PCA T8 EXCEL one4all 18 – 38 W Page 118

PCA T8 EXCEL one4all Ip xitec 36 – 58 W Page 120

PCA T8 EXCEL one4all 3/18 W and 4/18 W Page 122

Compact lamps (CFL) and T5c circular fluorescent lamp

PCA TCL EXCEL one4all 18 – 80 W Page 123

PCA TCL EXCEL one4all Ip xitec 55 W Page 125

PCA TCL EXCEL c one4all 18 – 24 W Page 127

PCA TCD/TCT EXCEL one4all 11 – 57 W Page 128

PCA TC-DD EXCEL one4all 55 W Page 130

PCA T5c EXCEL one4all 22 – 55 W Page 131

Dimmable ECG for local applications
such as switchDIM or central DALI
applications

Dimmable ECG with outstanding
flexibility. Suitable for local
applications such as switchDIM
and corridorFUNCTION or central
DSI and DALI applications

Accessories

Light sensor for maintained illuminance

Smart-LS II / Smart-LS II Ip Page 132

Plugs

corridorFUNCTION Page 133

plugADDRESSING Page 135

Wiring diagrams and installation examples Page 136

Product overview



PCA EXCEL one4all

Portfolio: T5, T8, TC-L,
TC-T, TC-D, T5c, TC-F

one4all automatically detects the control signal. The luminaire is ready for anything – DALI, DSI, switchDIM, SMART or corridorFUNCTION applications.

Description:

- one4all interface
- corridorFUNCTION
- Automatically triggered emergency lighting value in DC mode, can be set between 1 and 70 %
- Fault and status reporting
- Extensive setting options such as emergency light value, fade rate and application-specific adaptation of the corridorFUNCTION



PCA ECO

Portfolio: T5, T8, TC-L,
TC-T, TC-D, T5c, TC-F

Exceptionally reliable digital DSI and switchDIM technology as the basis for plug & play solutions.

Description:

- DSI, switchDIM and SMART
- Automatically triggered emergency lighting value in DC mode, 70 %

Product overview x!tec



PCA EXCEL one4all Ip x!tec

Portfolio: T5, T8, TC-L

The all-rounder among electronic ballasts. one4all automatically detects the control signal. The luminaire is ready for anything – DALI, DSI, switchDIM, SMART or corridorFUNCTION applications. PCA EXCEL one4all Ip x!tec offers maximum flexibility thanks to a wide range of user-definable functions and parameters. In addition, PCA T5 EXCEL one4all Ip x!tec operates any T5 lamps of the same length, e.g. 14 W/24 W. There really is only one for all – one4all.

Description:

- Multi-lamp management for devices for T5 fluorescent lamps
- one4all interface (DALI, DSI, switchDIM, corridorFUNCTION and SMART)
- corridorFUNCTION with 3 preprogrammed profiles, individually programmable and additional option for daylight control via Smart-LS II
- plugADDRESSING
- Intelligent Temperature Guard and Intelligent Voltage Guard
- Automatically triggered emergency lighting value in DC mode, can be set between 1 and 100 %
- Backwards compatible
- Further extensive adjustment options



PCA EXCITE Ip x!tec

Portfolio: T5, TC-L

Ballasts specially optimised for DALI lighting control systems, exploiting all the benefits of x!tec technology: individually adjustable dimming function, large memory and exceptional functionality – at an economical price.

Description:

- Multi-lamp management for T5 fluorescent lamps
- DALI, switchDIM
- Intelligent Temperature Guard and Intelligent Voltage Guard
- Automatically triggered emergency lighting value in DC mode, can be set between 1 and 100 %



PCA ECO Ip x!tec

Portfolio: T5, T8, TC-L

These reliable entry-level devices with predefined dimming functions use tried and trusted DSI and switchDIM technology. The x!tec version offers many additional benefits such as multi-lamp management and corridorFUNCTION.

Description:

- Multi-lamp management
- DSI, switchDIM, corridorFUNCTION and SMART
- corridorFUNCTION (3 preprogrammed profiles)
- Intelligent Temperature Guard and Intelligent Voltage Guard
- Automatically triggered emergency lighting value in DC mode, 70 %
- Backwards compatible

Standards – Dimming feature list

Series	Type	Version	Lamp type	Page	EN 55015	EN 55022	acc. to EN 50172 for emergency light installations	EN 60929	EN 61000-3-2	EN 61347-2-3	EN 61547
ECO	NEW PCA T5 ECO Ip xitec, 14–80 W	1x14/24–1x35/49/80 and 2x14/24–2x35/49	T5	Page 94	•	•	•	•	•	•	•
		2x80	T5	Page 94	•	•	•	•	•	•	•
		3x14/24	T5	Page 96	•	•	•	•	•	•	•
		4x14/24	T5	Page 96	•	•	•	•	•	•	•
	PCA T8 ECO, 18–38 W	1x18–1x38 and 2x18–2x38	T8	Page 97	•	•	•	•	•	•	•
		3x18 and 4x18	T8	Page 100	•	•	•	•	•	•	•
	NEW PCA T8 ECO Ip xitec, 36–58 W	1x36–1x58 and 2x36–2x58	T8	Page 98	•	•	•	•	•	•	•
	PCA TCL ECO, 18–80 W	1x36–1x80 and 2x18–2x40	TC-L	Page 101	•	•	•	•	•	•	•
	NEW PCA TCL ECO Ip xitec, 55 W	1x55 and 2x55	TC-L	Page 103	•	•	•	•	•	•	•
	PCA TCL ECO c, 18–24 W	1x18–1x24 and 2x18–2x24	TC-L	Page 104	•	•	•	•	•	•	•
	PCA TCD/TCT ECO, 11–57 W ①	1x11/13–1x57 and 2x11/13–2x42	TC-D/TC-T	Page 106	•	•	•	•	•	•	•
	PCA TC-DD ECO, 55 W	1x55	TC-DD	Page 108	•	•	•	•	•	•	•
	PCA T5c ECO, 22–55 W	1x22–1x55	T5c	Page 109	•	•	•	•	•	•	•
EXCITE	PCA T5 EXCITE Ip xitec, 14–80 W	1x14/24–1x35/49/80 and 2x14/24–2x35/49	T5	Page 110	•	•	•	•	•	•	•
EXCEL one4all	PCA T5 EXCEL one4all Ip xitec, 14–80 W	1x14/24–1x35/49/80 and 2x14/24–2x35/49	T5	Page 112	•	•	•	•	•	•	•
		2x80	T5	Page 112	•	•	•	•	•	•	•
		3x14/24	T5	Page 115	•	•	•	•	•	•	•
		4x14/24	T5	Page 115	•	•	•	•	•	•	•
	PCA T5 EXCEL one4all Ip, 28 W	2x28	T5	Page 117	•	•	•	•	•	•	•
	PCA T5 EXCEL one4all, 54 W	2x54	T5	Page 114	•	•	•	•	•	•	•
	PCA T8 EXCEL one4all, 18–38 W	1x18–1x38 and 2x18–2x38	T8	Page 118	•	•	•	•	•	•	•
		3x18 and 4x18	T8	Page 122	•	•	•	•	•	•	•
	NEW PCA T8 EXCEL one4all Ip xitec, 36–58 W	1x36–1x58 and 2x36–2x58	T8	Page 120	•	•	•	•	•	•	•
	PCA TCL EXCEL one4all, 18–80 W	1x36–1x80 and 2x18–2x40	TC-L	Page 123	•	•	•	•	•	•	•
	NEW PCA TCL EXCEL one4all Ip xitec, 55 W	1x55 and 2x55	TC-L	Page 125	•	•	•	•	•	•	•
	PCA TCL EXCEL c one4all, 18–24 W	1x18–1x24 and 2x18–2x24	TC-L	Page 127	•	•	•	•	•	•	•
	PCA TCD/TCT EXCEL one4all, 11–57 W	1x11/13–1x57 and 2x11/13–2x42	TC-D/TC-T	Page 128	•	•	•	•	•	•	•
	PCA TC-DD EXCEL one4all, 55 W	1x55	TC-DD	Page 130	•	•	•	•	•	•	•
	PCA T5c EXCEL one4all, 22–55 W	1x22–1x55	T5c	Page 131	•	•	•	•	•	•	•

	Automatic restart on relamping	Life of 50,000 hours ②	Cut-off in the event of lamp faults	CELMA energy class A1bat	CELMA energy class A1	DSi	DALI	DALI Memory	switchDIM	switchDIM Memory	SMART Interface	corridorFUNCTION	Intelligent Temperature Guard (ITG)	Intelligent Voltage Guard (IVG)	plugADDRESSING	Dimming range 1 – 100%	Dimming range 3 – 100%	Dimming range 5 – 100%	Dimming range 10 – 100%	Adjustable DC level	DC level 70%	Backwards compatibility	SMART-Heating concept	Multi-lamp operation ③	Power input on standby < 0.5W	Power input on standby < 0.8W	Power input on standby < 1.0W
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- ① PCA TCT ECO: Dimming range 10 – 100 %
 ② Average life = 50,000 hours (at ta max. and a failure rate of ≤ 0.2 % per 1,000 hours)
 ③ Operation of T5 lamps of the same length (e.g. FH 28 W/FQ 54 W)

Digital dimmable ballasts for fluorescent lamps

Digital dimmable ballasts from Tridonic can do everything our electronic ballasts can do – and more. PCA ballasts combine outstanding reliability and excellent economy with the option of dimming. And here too there is a wide range of products so customers can always find the perfect solution for their specific requirements in terms of product and application.

- **PCA ECO:** The reliable entry-level devices with predefined dimming functions and values use tried and trusted DSI and switchDIM technology for convenient plug & play solutions. PCA ECO devices can be combined with a daylight controller via the SMART Interface; the x:tec version offers the additional benefits of corridorFUNCTION and multi-lamp management.
- **PCA EXCITE:** Ballasts specially optimised for DALI lighting control systems, exploiting all the benefits of x:tec technology: individually adjustable dimming function, large memory and exceptional functionality – at an economical price.
- **PCA EXCEL one4all:** Individually adjustable ballasts with all the options and features that a device with a universal interface and extensive memory options can offer: communication via DSI and DALI, switchDIM corridorFUNCTION and daylight control via the SMART Interface. The x:tec generation of PCA EXCEL one4all Ip devices also offers a large number of functions and extended setting options such as multi-lamp management and plugADDRESSING.

Comfort and quality of the highest level

The human eye perceives daylight as the most pleasant form of lighting. To simulate nature as closely as possible we therefore need dimmable luminaires that provide exactly the right amount of light in the right light colour. And because our eyes are so sensitive Tridonic strives for maximum reliability and precision. PCA ballasts are stable at all dimming levels and start the light sources without flickering. They also offer a series of intelligent functions and therefore the ability to save energy continually and also supply light of the highest quality.

Dimmable luminaires provide the basis for individuality in interior lighting. By changing the amount of light it is possible to create new looks – with only modest technical outlay, as dimmable ballasts from Tridonic prove.

All dimmable ballasts from Tridonic can be controlled directly with standard switches. The corridorFUNCTION can be simply operated with standard motion sensors. Integration in higher-ranking control systems such as DSI and DALI is just as easy.

Functionality and reliability are the top priorities. The digital dimmable ballasts have therefore been equipped with a large range of functions and protective features. All these functions and features are designed to achieve high-quality results in the simplest way. They include Intelligent Voltage Guard to prevent damage from overvoltages or undervoltages, and Intelligent Temperature Guard for improved protection against thermal overloading.

Hot restarts for fluorescent lamps reduce the costs for relamping and for maintaining the lighting system. High-quality components, intelligent circuit designs and extensive testing under rated conditions guarantee reliability at all ambient temperatures between -25°C and $+60^{\circ}\text{C}$ and a rated life of 50,000 hours – at a reliability in excess of 90 %, in other words an average failure rate of 0.2 % per 1,000 hours of operation. This enables Tridonic not only to provide a standard guarantee but to offer an enhanced guarantee.

The most responsible type of cost reduction: excellent energy efficiency

Dimmable PCA ballasts use the intelligence of their x!tec processor to save energy consistently and effortlessly. Energy consumption is reduced thanks to a series of intelligent functions. These functions include optimised lamp operation, low power consumption on standby and automation for corridors, storage rooms and car parks. The SMART-Heating concept from Tridonic is also highly effective. In devices of the x!tec generation electrode heating is switched-off at 80 to 90 % of the dimming value so less energy is consumed. This results in energy class A1 or A1 BAT (Best Available Technology) for x!tec products.

Dimming itself provides enormous potential for energy savings. Dimmable luminaires are the basis for achieving the right amount of light at all times. Energy savings of up to 80 % are achieved in lighting systems that automatically adjust the level of artificial light to the presence of people and to freely available natural daylight. Tridonic offers a wide range of technical options, from fully automatic daylight control to simple constant light control. For this simple but efficient form of brightness regulation PCA ballasts are equipped with a SMART Interface.

The Smart-LS II light sensor can therefore be fitted directly in the luminaire. This sensor detects the available ambient light and uses this as the basis for controlling the lighting level to achieve a defined constant light value.

Tridonic has developed the corridorFUNCTION specifically for less frequented places. The principle is simple. Light is only produced when it is needed and is switched on and off automatically. This is a very simple yet highly efficient way to save energy.

x!tec: better performance from greater digital functionality

Since 1991 when Tridonic caused a sensation with the first digital processor, the pace of development has been rapid – in terms not only of the x!tec range of products but also in the capabilities of each device. The x!tec chip raises the quality of dimming and ensures maximum reliability. The interplay between the various components is trouble-free, and energy efficiency is second to none. Integrated functions prolong the life of the luminaire system, and products equipped with x!tec offer better performance and are easier to handle.

With in-house developments such as x!tec processor technology we offer our customers added value. Tridonic is therefore more flexible than other manufacturers and can respond quickly to new developments and individual customer requirements by continually improving the intelligence of the devices to meet the specific demands of the luminaire industry.

switchDIM: Digital lamp management in its simplest form

With switchDIM it is possible to create lighting systems that can be easily switched and dimmed at low cost. The key is simple but clever. It involves using standard mains voltage switches for lighting control. The different switching and dimming functions are performed depending on the operating status at the time and how long the switch is pressed. A short press on the switch switches the connected ballasts on or off; holding down the switch will fade the connected ballasts up or down.

In a direct comparison with other control methods, switchDIM not only has a distinct cost advantage, it offers better functionality and simple installation:

- Cost-effective dimming and switching
- User-friendly operation from multiple control points (up to 25 conventional switches)
- Theoretically unlimited number of ballasts (we recommend a maximum of 25 ballasts per switchDIM system)
- Selectable fade rates depending on the ballast
- A dimming characteristic tailored to the sensitivity of the eye
- Intelligent solution in combination with Smart-LS II ambient light sensor (manual regulation of the set-point via the switch)
- The control signal corresponds to the mains voltage
- Powerless switching via the control interface

corridorFUNCTION



Dimmable ballasts with corridorFUNCTION are a very simple and highly efficient way of reducing energy consumption. Even the simplest solutions with a standard motion sensor have a great effect.

PCA EXCEL one4all ballasts of the x!tec generation offer maximum potential savings thanks to the combination of daylight sensor and motion sensor. The application is activated automatically as soon as the mains signal at the digital interface of the ballast with integrated corridorFUNCTION is applied for longer than five minutes.

Wherever light has to be provided 24 hours a day for statutory reasons, the corridorFUNCTION helps provide the right light, combined with energy-efficient and cost-effective operation. This economical form of 24-hour lighting is ideal for pedestrian underpasses, underground train stations, ATM booths, telephone kiosks, hotels, public buildings and hospitals.

The principle is simple. Light is only produced when it is needed – and then with maximum comfort and convenience. A minimum lighting level is available round the clock. When someone enters a room or relevant space the required lighting is instantly available and at full strength. Whether and when the lighting is completely switched-off depends on the selected ballast and its corridorFUNCTION profile, and these are user-definable on PCA EXCEL one4all ballasts. Depending on the ballast, the available profiles are “Never-off”, “1 minute-off” and “30 minutes-off”.

corridorFUNCTION offers enhanced safety even when it is switching the lighting system off. When the last person leaves a room the lighting is not immediately switched-off entirely. Instead, the lighting level is slowly reduced. In addition to a greater selection of profiles, devices with corridorFUNCTION of the second generation offer the option of instant activation. This makes start-up easier.

SMART Interface

Installation has never been as convenient as with the SMART Interface. Light sensors and plugs can be used. The plugs are used for manual programming of a wide variety of device parameters, such as corridorFUNCTION profiles and DALI group addresses. The interface automatically activates the relevant mode on detecting the plug or sensor.

It is therefore extremely simple to measure the light level with a dimmable PCA ballast in combination with the Smart-LS II light sensor, and therefore to control the ECG locally and at the same time monitor it via DALI. With the SMART Interface and plugADDRESSING even flexible lighting systems, large RGB panels and DALI lighting systems split into groups and containing a large number of digital dimmable ballasts can be put into operation very quickly and without the need for any additional aids.

Intelligent Voltage Guard



Prevention is better than cure – and that is also true of ballasts. To help prevent damage due to overvoltage or under-voltage the mains voltage for all PCA ballasts is constantly monitored. If the mains voltage is too low the relevant lamp circuit is switched-off. At voltages between 70 and 140 V the device switches-off and on again on a non-cyclic basis. In the event of overvoltage the protection system issues an alarm by causing the lamps to flash alternately so that the installer can immediately take action to remedy the overvoltage.

Intelligent Temperature Guard



Constant temperature checks enhance the reliability of the ballasts. Intelligent Temperature Guard provides effective protection against thermal overloads by slowly reducing the output if a defined ASIC temperature is exceeded. The reduction in overtemperature takes place in small stages every two minutes and is repeated successively every 10 minutes as soon as the temperature falls again. If the desired result cannot be achieved in this way the luminaire is switched-off.

DC emergency lighting



Dimmable luminaires consume less power – and that is also true in emergency lighting mode. Lower consumption in this mode has a positive effect on battery capacity and cable dimensions. PCA ballasts can

be operated on AC or DC voltage. This means there is no need for a separate emergency lighting system. With a starting time of 0.2 seconds in DC emergency lighting mode the digital dimmable ballasts are ideal for emergency lighting. The DC level can be individually adjusted or is predefined depending on the product group.

Other intelligent functions make compliance with statutory requirements much simpler. For example, after every function test the previous lighting level is automatically restored.

SMART-Heating concept

Saving energy and prolonging the life of the lamp at the same time – PCA ballasts of the xitec generation with the integrated SMART-Heating concept bring a luminaire one stage closer to these twin objectives. The key is the control circuit for heating the electrodes in fluorescent lamps. The lamp is heated only as required, and this heating is switch-off when the lamp reaches 80 to 90 % of the fade value.

plugADDRESSING

Ballasts with plugADDRESSING greatly simplify the wiring and commissioning of large-scale lighting systems, such as those in factories and open-plan offices. Automatic detection and addressing of the luminaires via plugADDRESSING reduces installation to just a few operations.

Ballasts with plugADDRESSING are highly recommended for

- simple lighting systems that have to provide a high degree of flexibility
- DALI lighting systems divided into groups with a large number of digital dimmable ballasts
- large RGB lighting panels

For more information please see the plugADDRESSING Installation Handbook.

Multi-lamp management

A luminaire with a multi-lamp ballast can automatically detect lamps of the same length and operate them with the correct lamp parameters (e.g. FH 28 W / FQ 54 W – a mixed population is not permitted for two-lamp ballasts). Users gain flexibility. They can always choose the appropriate and therefore most efficient lamp and react promptly to any changes in circumstances with no additional costs involved. The multiple use of these ballasts also helps reduce production and storage costs for luminaire manufacturers. Fewer components make handling simpler and reduce storage volume.

Constant high quality

The consistently high quality and reliability of the ballasts are guaranteed by the use of high-grade materials together with manufacturing processes certified to ISO 9001. Fully automatic manufacture also ensures constant reproducible quality. All the ballasts are subjected to 100 % final testing and safety testing.

To achieve this zero-defect quality without wastage Tridonic combines the principles of Lean Management and Lean Production with the Six Sigma method. The entire process chain has been optimised. Specifically this means that massive savings can be made by reducing throughput time, fault costs, transport, stock levels, unnecessary movements, waiting times, overproduction, over-processing and set-up time. So the high quality and reliability of Tridonic products are matched by exemplary efficiency.

A responsibility to people and nature

Tridonic demonstrates its responsibility to the environment with its "ecolution" initiative in which the company is committed to environmental management in accordance with ISO 14001. Another commitment relates to all Tridonic employees throughout the world. The company namely complies with the health and safety requirements of OHSAS 18001.

Standards and approval marks

Electronic ballasts from Tridonic are ENEC certified, carry the CE mark and meet all the relevant European as well as international standards relating to safety, operation and electro-magnetic compatibility (EMC).

Lamp matrix

Which control gear for which lamp?

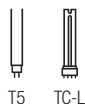
The latest lamp matrix can be downloaded from the internet at www.tridonic.com, menu "Technical Information", submenu "Lamp matrix"

Technical Information

The latest technical information can be downloaded from the internet: www.tridonic.com, menu "Technical Information", submenu "Data sheets"

Personal enquiries

A form for personal enquiries is available on the internet at www.tridonic.com, menu "Contact", submenu "Enquiry"



NEW

PCA T5 ECO Ip xitec, 14 – 80 W T5 fluorescent lamps

Product description

- Processor-controlled ballast with xitec inside
- Multilamp management – one ballast for all T5 lamps of the same length (e.g. FH 28 W / FQ 54 W)
- Automatic lamp detection and operation with correct lamp parameters
- Noise-free precise control via DSI signal, switchDIM or corridorFUNCTION
- CELMA energy class A1 BAT

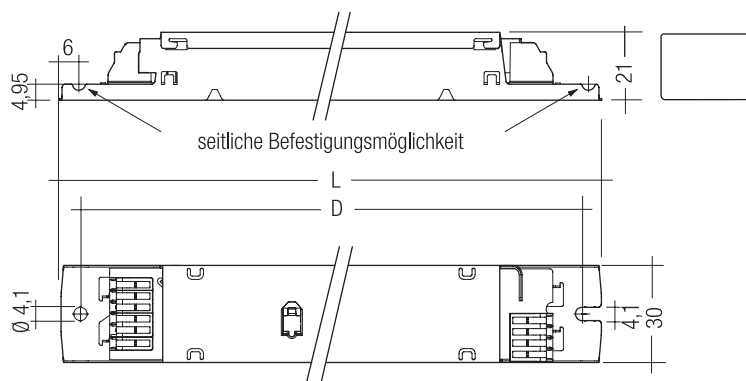
Interfaces

- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (3 preprogrammed profiles)
- Integrated SMART-Interface

Functions

- Intelligent Temperature Guard (protection against thermal damage)
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optimum filament heating in any dimmer setting
- Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating Concept)
- Fade rates between 50 ms and 90 s (min-max.)
- Automatically triggered emergency lighting value in DC mode, 70 %
- For emergency lighting systems as per EN 50172
- Automatic start after replacement of defective lamps
- Backwards compatible

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	1 – 100 %
Lamp start possible from	1 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	21 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1x14/24 T5 ECO Ip xitec	22176247
PCA 1x21/39 T5 ECO Ip xitec	22176245
PCA 1x28/54 T5 ECO Ip xitec	22176243
PCA 1x35/49/80 T5 ECO Ip xitec	22176241
For luminaires with 2 lamps	
PCA 2x14/24 T5 ECO Ip xitec	22176248
PCA 2x21/39 T5 ECO Ip xitec	22176246
PCA 2x28/54 T5 ECO Ip xitec	22176244
PCA 2x35/49 T5 ECO Ip xitec	22176242
PCA 2/80 T5 ECO Ip	22176054

Packaging 360 mm casing: 10 pieces/carton, 760 pieces/pallet
Packaging 425 mm casing: 25 pieces/carton, 825 pieces/pallet



Product matrix, page 86

Standards, page 86

Wiring diagrams and installation examples, page 136

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Circuit power ^②	Lamp wattage ^②	Current at 230 V / 50 Hz ^③	λ at 230 V / 50 Hz	tc point	Ambient temperature ta ^③
For luminaires with 1 lamp											
1 x 14 W	T5	PCA 1x14/24 T5 ECO Ip xitec	360 mm	350 mm	0.25 kg	16.0 W	14 W	0.08 A	0.95	80 °C	-25 ... 60 °C
1 x 24 W	T5	PCA 1x14/24 T5 ECO Ip xitec	360 mm	350 mm	0.25 kg	25.5 W	24 W	0.12 A	0.97	80 °C	-25 ... 60 °C
1 x 24 W	TC-L	PCA 1x14/24 T5 ECO Ip xitec	360 mm	350 mm	0.25 kg	25.5 W	24 W	0.12 A	0.97	80 °C	-25 ... 60 °C
1 x 21 W	T5	PCA 1x21/39 T5 ECO Ip xitec	360 mm	350 mm	0.25 kg	23.5 W	21 W	0.11 A	0.95	85 °C	-25 ... 60 °C
1 x 39 W	T5	PCA 1x21/39 T5 ECO Ip xitec	360 mm	350 mm	0.25 kg	42.0 W	39 W	0.20 A	0.97	85 °C	-25 ... 60 °C
1 x 40 W	TC-L	PCA 1x21/39 T5 ECO Ip xitec	360 mm	350 mm	0.25 kg	42.0 W	39 W	0.19 A	0.97	85 °C	-25 ... 60 °C
1 x 28 W	T5	PCA 1x28/54 T5 ECO Ip xitec	360 mm	350 mm	0.26 kg	30.5 W	28 W	0.15 A	0.95	80 °C	-25 ... 60 °C
1 x 54 W	T5	PCA 1x28/54 T5 ECO Ip xitec	360 mm	350 mm	0.26 kg	59.5 W	54 W	0.27 A	0.98	85 °C	-25 ... 60 °C
1 x 35 W	T5	PCA 1x35/49/80 T5 ECO Ip xitec	360 mm	350 mm	0.27 kg	38.5 W	35 W	0.18 A	0.97	80 °C	-25 ... 60 °C
1 x 49 W	T5	PCA 1x35/49/80 T5 ECO Ip xitec	360 mm	350 mm	0.27 kg	53.0 W	49 W	0.24 A	0.97	80 °C	-25 ... 60 °C
1 x 80 W	T5	PCA 1x35/49/80 T5 ECO Ip xitec	360 mm	350 mm	0.27 kg	86.5 W	80 W	0.39 A	0.98	85 °C	-25 ... 60 °C
For luminaires with 2 lamps											
2 x 14 W	T5	PCA 2x14/24 T5 ECO Ip xitec	360 mm	350 mm	0.28 kg	32.5 W	28 W	0.15 A	0.97	80 °C	-25 ... 60 °C
2 x 24 W	T5	PCA 2x14/24 T5 ECO Ip xitec	360 mm	350 mm	0.28 kg	51.0 W	48 W	0.23 A	0.98	85 °C	-25 ... 60 °C
2 x 24 W	TC-L	PCA 2x14/24 T5 ECO Ip xitec	360 mm	350 mm	0.28 kg	51.0 W	48 W	0.23 A	0.98	85 °C	-25 ... 60 °C
2 x 21 W	T5	PCA 2x21/39 T5 ECO Ip xitec	425 mm	415 mm	0.35 kg	45.5 W	42 W	0.21 A	0.97	80 °C	-25 ... 60 °C
2 x 39 W	T5	PCA 2x21/39 T5 ECO Ip xitec	425 mm	415 mm	0.35 kg	82.5 W	78 W	0.38 A	0.99	85 °C	-25 ... 60 °C
2 x 28 W	T5	PCA 2x28/54 T5 ECO Ip xitec	425 mm	415 mm	0.35 kg	60.5 W	56 W	0.28 A	0.97	80 °C	-25 ... 60 °C
2 x 54 W	T5	PCA 2x28/54 T5 ECO Ip xitec	425 mm	415 mm	0.35 kg	116.5 W	108 W	0.53 A	0.99	85 °C	-25 ... 55 °C
2 x 35 W	T5	PCA 2x35/49 T5 ECO Ip xitec	425 mm	415 mm	0.34 kg	75.0 W	70 W	0.33 A	0.97	80 °C	-25 ... 60 °C
2 x 49 W	T5	PCA 2x35/49 T5 ECO Ip xitec	425 mm	415 mm	0.34 kg	105.5 W	98 W	0.47 A	0.98	85 °C	-25 ... 60 °C
2 x 80 W	T5	PCA 2/80 T5 ECO Ip xitec ^①	425 mm	415 mm	0.35 kg	167.0 W	160 W	0.74 A	0.99	80 °C	-25 ... 50 °C

① Single wattage, basic corridorFUNCTION – see commissioning manual, power draw on standby < 0.8 W

② Valid at 100 % dimming level

③ +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %. -25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



PCA T5 ECO Ip xitec 3 and 4x14/24 W T5 fluorescent lamps

Product description

- Processor-controlled ballast with xitec inside
- Automatic lamp detection and operation with correct lamp parameters
- Noise-free precise control via DSI signal, switchDIM or corridorFUNCTION
- CELMA energy class A1 BAT

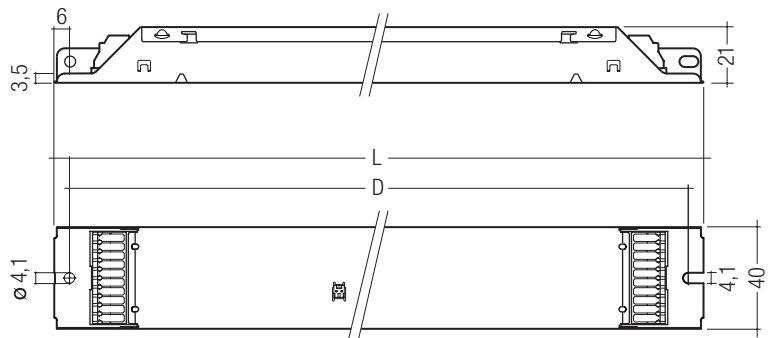
Interfaces

- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (3 preprogrammed profiles)
- Integrated SMART-Interface

Functions

- Intelligent Temperature Guard (protection against thermal damage)
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optimum filament heating in any dimmer setting
- Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating Concept)
- Automatically triggered emergency lighting value in DC mode, 70 %
- For emergency lighting systems as per EN 50172
- Automatic start after replacement of defective lamps
- Backwards compatible

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range, 3 lamps	5 – 100 %
Dimming range, 4 lamps	1 – 100 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	21 mm

Ordering data

Type	Article number
For luminaires with 3 lamps	
PCA 3x14/24 T5 ECO Ip xitec	22176211
For luminaires with 4 lamps	
PCA 4x14/24 T5 ECO Ip xitec	22176212

Packaging 360 mm casing: 20 pieces/carton, 600 pieces/pallet



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Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz ^①	λ at 230 V / 50 Hz	tc point	Ambient temperature ta ^②
For luminaires with 3 lamps											
3 x 14 W	T5	PCA 3x14/24 T5 ECO Ip xitec	360 mm	350 mm	0.29 kg	46.5 W	42 W	0.21 A	0.97	75 °C	-25 ... 60 °C
3 x 24 W	T5	PCA 3x14/24 T5 ECO Ip xitec	360 mm	350 mm	0.29 kg	73.0 W	72 W	0.32 A	0.97	75 °C	-25 ... 55 °C
For luminaires with 4 lamps											
4 x 14 W	T5	PCA 4x14/24 T5 ECO Ip xitec	360 mm	350 mm	0.33 kg	60.5 W	56 W	0.27 A	0.97	75 °C	-25 ... 60 °C
4 x 24 W	T5	PCA 4x14/24 T5 ECO Ip xitec	360 mm	350 mm	0.33 kg	97.5 W	96 W	0.43 A	0.97	75 °C	-25 ... 50 °C

^① Valid at 100 % dimming level

^② +10 °C to ta max: unrestricted dimming, -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %, -25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



PCA T8 ECO, 18 – 38 W T8 fluorescent lamps

Product description

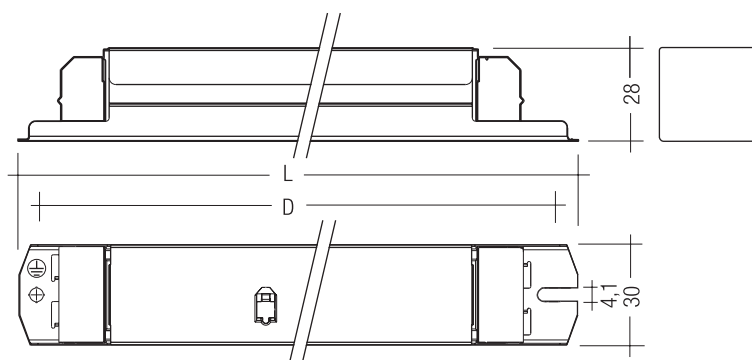
- Noise-free precise control via DSI signal or switchDIM
- CELMA energy class A1

Interfaces

- DSI
- switchDIM
- Integrated SMART-Interface

Functions

- Optimum filament heating in any dimmer setting
 - Automatically triggered emergency lighting value in DC mode, 70 %
 - For emergency lighting systems as per EN 50172
 - Automatic start after replacement of defective lamps
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 1 W
Protective hot restart	0.6 s
Dimming range	1 – 100 %
Lamp start possible from	1 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	28 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1/18 ECO	22085406
PCA 1/30 ECO	22086116
PCA 1/38 ECO	22087002
For luminaires with 2 lamps	
PCA 2/18 ECO	22085415
PCA 2/30 ECO	22086122
PCA 2/38 ECO	22087011

Packaging: 10 pieces/carton, 580 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz ^①	λ at 230 V / 50 Hz	tc point	Ambient temperature ta ^②
For luminaires with 1 lamp											
1 x 18 W	T8	PCA 1/18 ECO	360 mm	350 mm	0.32 kg	20.8 W	16 W	0.100 A	0.93	65 °C	-25 ... 60 °C
1 x 30 W	T8	PCA 1/30 ECO	360 mm	350 mm	0.32 kg	30.1 W	25 W	0.135 A	0.96	80 °C	-25 ... 60 °C
1 x 38 W	T8	PCA 1/38 ECO	360 mm	350 mm	0.32 kg	37.3 W	32 W	0.170 A	0.98	70 °C	-25 ... 60 °C
For luminaires with 2 lamps											
2 x 18 W	T8	PCA 2/18 ECO	360 mm	350 mm	0.36 kg	39.6 W	32 W	0.180 A	0.96	75 °C	-25 ... 60 °C
2 x 30 W	T8	PCA 2/30 ECO	360 mm	350 mm	0.36 kg	58.0 W	50 W	0.260 A	0.98	75 °C	-25 ... 60 °C
2 x 38 W	T8	PCA 2/38 ECO	360 mm	350 mm	0.36 kg	71.1 W	64 W	0.315 A	0.99	75 °C	-25 ... 60 °C

^① Valid at 100 % dimming level

^② 1 % dimming from 0 °C to ta max.



NEW

PCA ECO Ip xitec, 36 – 58 W T8 fluorescent lamps

Product description

- Processor-controlled ballast with xitec inside
- Noise-free precise control via DSI signal, switchDIM or corridorFUNCTION
- CELMA energy class A1 BAT

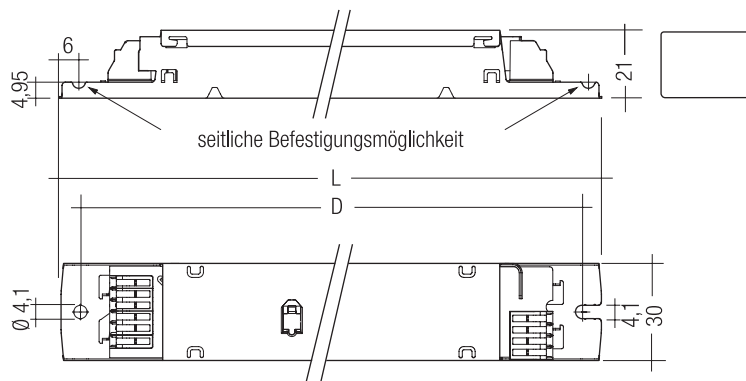
Interfaces

- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (3 preprogrammed profiles)
- Integrated SMART-Interface

Functions

- Intelligent Temperature Guard (protection against thermal damage)
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optimum filament heating in any dimmer setting
- Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating Concept)
- Fade rates between 50 ms and 90 s (min-max.)
- Automatically triggered emergency lighting value in DC mode, 70 %
- For emergency lighting systems as per EN 50172
- Automatic start after replacement of defective lamps
- Backwards compatible

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	1 – 100 %
Lamp start possible from	1 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	21 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1x36 T8 ECO Ip xitec	22176354
PCA 1x58 T8 ECO Ip xitec	22176356
For luminaires with 2 lamps	
PCA 2x36 T8 ECO Ip xitec	22176355
PCA 2x58 T8 ECO Ip xitec	22176357

Packaging 360 mm casing: 10 pieces/carton, 760 pieces/pallet

Packaging 425 mm casing: 25 pieces/carton, 825 pieces/pallet



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Specific technical data

Lamp wattage	Lamp type	Type	Length L	Dimensions LxWxH	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^②
For luminaires with 1 lamp												
1 x 36 W	T8	PCA 1x36 T8 ECO Ip x tec	360 mm	360 x 30 x 21 mm	350 mm	0.25 kg	35.3 W	36 W	0.15 A	0.96	75 °C	-25 ... 60 °C
1 x 58 W	T8	PCA 1x58 T8 ECO Ip x tec	360 mm	360 x 30 x 21 mm	350 mm	0.27 kg	53.6 W	58 W	0.23 A	0.97	75 °C	-25 ... 60 °C
For luminaires with 2 lamps												
2 x 36 W	T8	PCA 2x36 T8 ECO Ip x tec	360 mm	360 x 30 x 21 mm	350 mm	0.28 kg	68.5 W	72 W	0.30 A	0.98	80 °C	-25 ... 60 °C
2 x 58 W	T8	PCA 2x58 T8 ECO Ip x tec	425 mm	425 x 30 x 21 mm	415 mm	0.34 kg	107.8 W	116 W	0.47 A	0.99	80 °C	-25 ... 50 °C

^① Valid at 100 % dimming level

^② 0 °C to ta max: unrestricted dimming. -25 °C to 0 °C: unrestricted dimming from 100 % to 30 %. -25 °C to 0 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



PCA T8 3/18 ECO + PCA T8 4/18 ECO

T8 fluorescent lamps

Product description

- Noise-free precise control via DSI signal or switchDIM
- CELMA energy class A1

Interfaces

- DSI
- switchDIM
- Integrated SMART-Interface

Functions

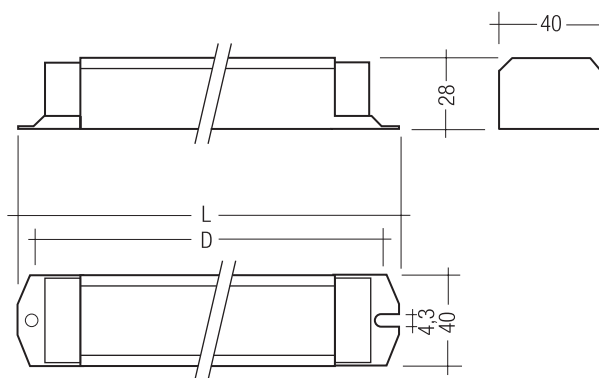
- Automatically triggered emergency lighting value in DC mode, 70 %
 - For emergency lighting systems as per EN 50172
 - Automatic start after replacement of defective lamps
- For product data sheet go to www.tridonic.com, or available on request



Product matrix, page 86

Standards, page 86

Wiring diagrams and installation examples, page 136



Technical data

Power input on standby	< 1 W
Protective hot restart	1.5 s for AC / 0.6 s for DC
Dimming range	10 – 100 %
Lamp start possible from	10 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	28 mm

Ordering data

Type	Article number
For luminaires with 3 lamps	
PCA 3/18 ECO	22086721
For luminaires with 4 lamps	
PCA 4/18 ECO	22086706

Packaging: 20 pieces/carton, 600 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz ^①	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^②
For luminaires with 3 lamps											
3 x 18 W	T8	PCA 3/18 ECO	360 mm	340 – 350 mm	0.38 kg	57.7 W	48 W	0.26 A	0.97	75 °C	-25 ... 50 °C
For luminaires with 4 lamps											
4 x 18 W	T8	PCA 4/18 ECO	360 mm	340 – 350 mm	0.40 kg	77.5 W	64 W	0.34 A	0.99	80 °C	-25 ... 60 °C

^① Valid at 100 % dimming level

^② 10 % dimming from 0 °C to ta max.



PCA TCL ECO, 18 – 80 W

Compact and T5c fluorescent lamps

Product description

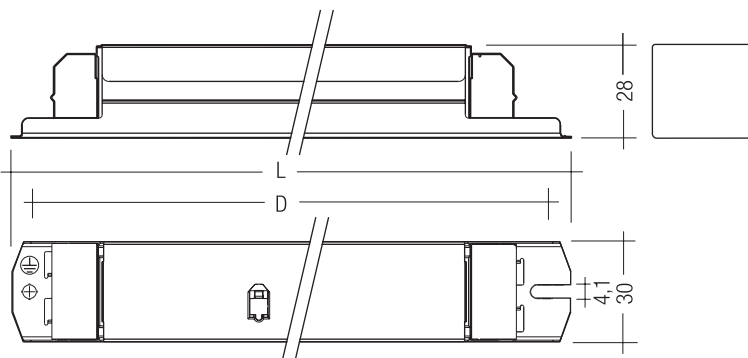
- Noise-free precise control via DSI signal or switchDIM
- CELMA energy class A1

Interfaces

- DSI
- switchDIM
- Integrated SMART-Interface

Functions

- Optimum filament heating in any dimmer setting
 - Automatically triggered emergency lighting value in DC mode, 70 %
 - For emergency lighting systems as per EN 50172
 - Automatic start after replacement of defective lamps
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 1 W
Protective hot restart	0.6 s for AC and DC / 1.5 s for AC (55 W, 80 W, 2 x 18 W and 2 x 55 W)
Dimming range	3 – 100 %
Lamp start possible from	3 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	28 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1/36 TCL ECO	22085507
PCA 1/40 TCL ECO	22085522
PCA 1/55 TCL ECO	22085544
PCA 1/80 TCL ECO	22088990
For luminaires with 2 lamps	
PCA 2/18 TCL ECO	22086856
PCA 2/24 TCL ECO	22086875
PCA 2/36 TCL ECO	22176470 ^①
PCA 2/40 TCL ECO	22085538
PCA 2/55 TCL ECO	22085550

Packaging: 10 pieces/carton, 580 pieces/pallet

^① Available: September 2010

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^②	Current at 230 V / 50 Hz ^③	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^④
For luminaires with 1 lamp											
1 x 36 W	TC-F	PCA 1/36 TCL ECO	360 mm	350 mm	0.32 kg	37.5 W	32 W	0.165 A	0.97	75 °C	-25 ... 60 °C
1 x 36 W	TC-L	PCA 1/36 TCL ECO	360 mm	350 mm	0.32 kg	37.5 W	32 W	0.165 A	0.97	75 °C	-25 ... 60 °C
1 x 40 W	TC-L	PCA 1/40 TCL ECO	360 mm	350 mm	0.32 kg	43.0 W	38 W	0.190 A	0.98	75 °C	-25 ... 60 °C
1 x 55 W	TC-L	PCA 1/55 TCL ECO	360 mm	350 mm	0.32 kg	61.5 W	55 W	0.270 A	0.99	80 °C	-25 ... 60 °C
1 x 80 W	TC-L	PCA 1/80 TCL ECO	360 mm	350 mm	0.32 kg	90.0 W	80 W	0.399 A	0.98	70 °C	-25 ... 50 °C
For luminaires with 2 lamps											
2 x 18 W	TC-L	PCA 2/18 TCL ECO	360 mm	350 mm	0.36 kg	42.0 W	30 W	0.165 A	0.98	80 °C	-25 ... 50 °C
2 x 24 W	TC-L	PCA 2/24 TCL ECO	360 mm	350 mm	0.36 kg	52.0 W	44 W	0.228 A	0.99	90 °C	-25 ... 60 °C
2 x 36 W	TC-F	PCA 2/36 TCL ECO	360 mm	350 mm	0.36 kg	74.0 W	64 W	0.325 A	0.99	80 °C	-25 ... 60 °C
2 x 36 W	TC-L	PCA 2/36 TCL ECO	360 mm	350 mm	0.36 kg	74.0 W	64 W	0.325 A	0.99	80 °C	-25 ... 60 °C
2 x 40 W	TC-L	PCA 2/40 TCL ECO	360 mm	350 mm	0.36 kg	87.9 W	76 W	0.380 A	0.99	75 °C	-25 ... 60 °C
2 x 55 W	TC-L	PCA 2/55 TCL ECO	360 mm	350 mm	0.36 kg	118.9 W	110 W	0.520 A	0.98	70 °C	-25 ... 50 °C

^① Valid at 100 % dimming level

^② 3 % dimming from +10 °C to ta max.



NEW

PCA TCL ECO Ip xitec, 55 W

Compact and T5c fluorescent lamps

Product description

- Processor-controlled ballast with xitec inside
- Noise-free precise control via DSI signal, switchDIM or corridorFUNCTION
- CELMA energy class A1 BAT

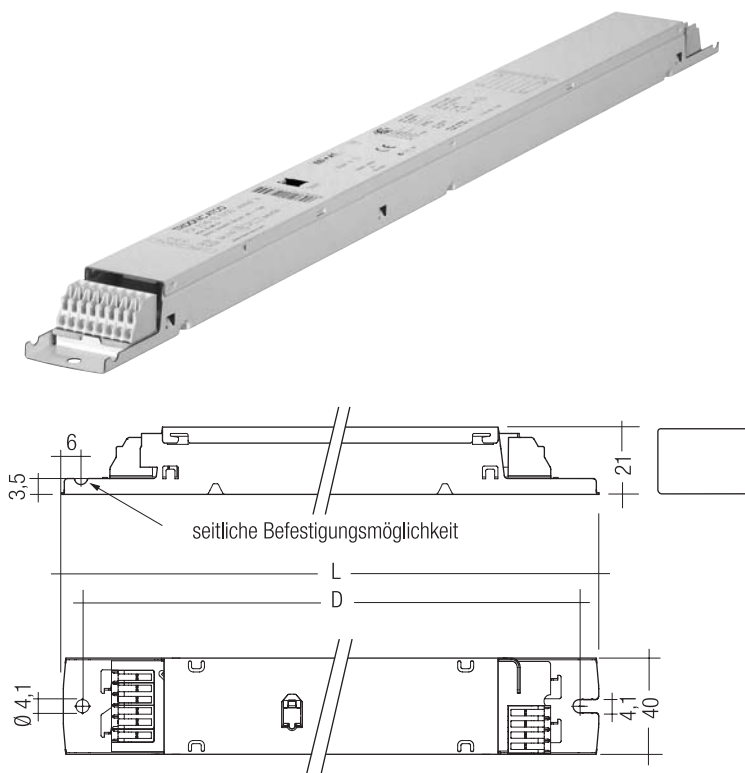
Interfaces

- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (3 preprogrammed profiles)
- Integrated SMART-Interface

Functions

- Intelligent Temperature Guard (protection against thermal damage)
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optimum filament heating in any dimmer setting
- Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating Concept)
- Automatically triggered emergency lighting value in DC mode, 70 %
- For emergency lighting systems as per EN 50172
- Automatic start after replacement of defective lamps
- Backwards compatible

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	1 – 100 %
Lamp start possible from	1 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	21 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1x55 TCL ECO Ip xitec	22176352
For luminaires with 2 lamps	
PCA 2x55 TCL ECO Ip xitec	22176353
Packaging 360 mm casing: 10 pieces/carton, 760 pieces/pallet	
Packaging 425 mm casing: 25 pieces/carton, 825 pieces/pallet	

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Dimensions LxWxH	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz ^②	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^②
For luminaires with 1 lamp												
1 x 55 W	TC-L	PCA 1x55 TCL ECO Ip xitec	360 mm	360 x 30 x 21 mm	350 mm	0.26 kg	58.9 W	55 W	0.26 A	0.98	80 °C	-25 ... 60 °C
For luminaires with 2 lamps												
2 x 55 W	TC-L	PCA 2x55 TCL ECO Ip xitec	425 mm	425 x 30 x 21 mm	415 mm	0.34 kg	117.8 W	110 W	0.51 A	0.99	80 °C	-25 ... 50 °C

^① Valid at 100 % dimming level

^② +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %. -25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



PCA TCL ECO c, 18 – 24 W

Compact and T5c fluorescent lamps

Product description

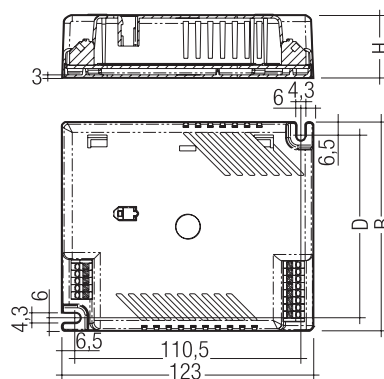
- Noise-free precise control via DSI signal or switchDIM
- CELMA energy class A1

Interfaces

- DSI
- switchDIM
- Integrated SMART-Interface

Functions

- Optimum filament heating in any dimmer setting
 - Automatically triggered emergency lighting value in DC mode, 70 %
 - For emergency lighting systems as per EN 50172
 - Automatic start after replacement of defective lamps
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 1 W
Protective hot restart	0.6 s for AC and DC / 1.5 s for AC (2 x 18 W)
Dimming range	3 – 100 %
Lamp start possible from	3 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	31 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1/18 TCL ECO c	22085462
PCA 1/24 TCL ECO c	22176460 ^①
For luminaires with 2 lamps	
PCA 2/18 TCL ECO c	22085478
PCA 2/24 TCL ECO c	22176462 ^①

Packaging: 10 pieces/carton, 500 pieces/pallet

^① Available: September 2010



Product matrix, page 86

Standards, page 86

Wiring diagrams and installation examples, page 136

Specific technical data

Lamp wattage	Lamp type	Type	Dimensions LxWxH	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz ^①	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^②
For luminaires with 1 lamp											
1 x 18 W	TC-F	PCA 1/18 TCL ECO c	123 x 79 x 31 mm	66.5 mm	0.22 kg	21 W	15 W	0.09 A	0.95	85 °C	-25 ... 60 °C
1 x 18 W	TC-L	PCA 1/18 TCL ECO c	123 x 79 x 31 mm	66.5 mm	0.22 kg	21 W	15 W	0.09 A	0.95	85 °C	-25 ... 60 °C
1 x 24 W	TC-F	PCA 1/24 TCL ECO c	123 x 79 x 31 mm	66.5 mm	0.22 kg	27 W	22 W	0.12 A	0.96	75 °C	-25 ... 60 °C
1 x 24 W	TC-L	PCA 1/24 TCL ECO c	123 x 79 x 31 mm	66.5 mm	0.22 kg	27 W	22 W	0.12 A	0.96	75 °C	-25 ... 60 °C
For luminaires with 2 lamps											
2 x 18 W	TC-F	PCA 2/18 TCL ECO c	123 x 102 x 31 mm	89.5 mm	0.25 kg	42 W	30 W	0.18 A	0.95	80 °C	-25 ... 50 °C
2 x 18 W	TC-L	PCA 2/18 TCL ECO c	123 x 102 x 31 mm	89.5 mm	0.25 kg	42 W	30 W	0.18 A	0.95	80 °C	-25 ... 50 °C
2 x 24 W	TC-F	PCA 2/24 TCL ECO c	123 x 102 x 31 mm	89.5 mm	0.25 kg	52 W	44 W	0.23 A	0.98	80 °C	-25 ... 60 °C
2 x 24 W	TC-L	PCA 2/24 TCL ECO c	123 x 102 x 31 mm	89.5 mm	0.25 kg	52 W	44 W	0.23 A	0.98	80 °C	-25 ... 60 °C

^① Valid at 100 % dimming level

^② 3 % dimming from +10 °C to ta max.



TC-DEL
TC-SEL
TC-TEL

PCA TCD ECO, 11 – 57 W

Compact and T5c fluorescent lamps

Product description

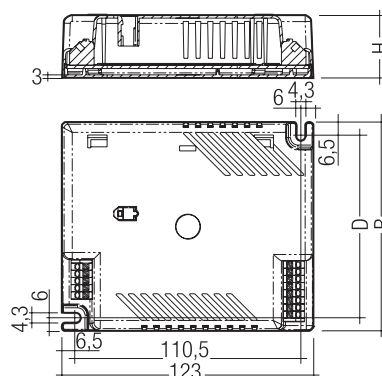
- Noise-free precise control via DSI signal or switchDIM
- CELMA energy class A1

Interfaces

- DSI
- switchDIM
- Integrated SMART-Interface

Functions

- Optimum filament heating in any dimmer setting
 - Automatically triggered emergency lighting value in DC mode, 70 %
 - For emergency lighting systems as per EN 50172
 - Automatic start after replacement of defective lamps
- For product data sheet go to www.tridonic.com, or available on request



Product matrix, page 86

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Wiring diagrams and installation examples, page 136

Technical data

Power input on standby	< 1 W
Protective hot restart	0.6 s
Dimming range	3 – 100 % (10 – 100 % at 57 W)
Lamp start possible from	3 % (10 % at 57 W)
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	31 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1/11/13 TCD ECO	22176456 ^①
PCA 1/18 TCD ECO	22084859
PCA 1/26 TCD ECO	22084765
PCA 1/32 TCT ECO	22088644
PCA 1/42 TCT ECO	22176464 ^①
PCA 1/57 TCT ECO	22086957
For luminaires with 2 lamps	
PCA 2/11/13 TCD ECO	22176458 ^①
PCA 2/18 TCD ECO	22084843
PCA 2/26 TCD ECO	22084752
PCA 2/32 TCT ECO	22088650
PCA 2/42 TCT ECO	22176466 ^①

Packaging: 10 pieces/carton, 500 pieces/pallet

^① Available: September 2010

Specific technical data

Lamp wattage	Lamp type	Type	Dimensions LxWxH	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz ^①	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^②
For luminaires with 1 lamp											
1 x 13 W	TC-DEL	PCA 1/11/13 TCD ECO	123 x 79 x 31 mm	66.5 mm	0.22 kg	16.5 W	12.7 W	0.076 A	0.95	70 °C	-15 ... 60 °C
1 x 11 W	TC-SEL	PCA 1/11/13 TCD ECO	123 x 79 x 31 mm	66.5 mm	0.22 kg	15.5 W	11.4 W	0.072 A	0.95	70 °C	-15 ... 60 °C
1 x 18 W	TC-DEL	PCA 1/18 TCD ECO	123 x 79 x 31 mm	66.5 mm	0.22 kg	20.5 W	16.0 W	0.100 A	0.96	75 °C	-25 ... 60 °C
1 x 18 W	TC-TEL	PCA 1/18 TCD ECO	123 x 79 x 31 mm	66.5 mm	0.22 kg	20.5 W	16.0 W	0.100 A	0.96	75 °C	-25 ... 60 °C
1 x 26 W	TC-DEL	PCA 1/26 TCD ECO	123 x 79 x 31 mm	66.5 mm	0.22 kg	27.5 W	23.0 W	0.130 A	0.97	85 °C	-25 ... 60 °C
1 x 26 W	TC-TEL	PCA 1/26 TCD ECO	123 x 79 x 31 mm	66.5 mm	0.22 kg	27.5 W	23.0 W	0.130 A	0.97	85 °C	-25 ... 60 °C
1 x 32 W	TC-TEL	PCA 1/32 TCT ECO	123 x 79 x 31 mm	66.5 mm	0.22 kg	36.2 W	30.0 W	0.160 A	0.95	80 °C	-25 ... 60 °C
1 x 42 W	TC-TEL	PCA 1/42 TCT ECO	123 x 79 x 31 mm	66.5 mm	0.22 kg	47.0 W	41.0 W	0.210 A	0.97	70 °C	-25 ... 60 °C
1 x 57 W	TC-TEL	PCA 1/57 TCT ECO	123 x 79 x 31 mm	66.5 mm	0.22 kg	66.0 W	57.0 W	0.290 A	0.99	85 °C	-25 ... 50 °C
For luminaires with 2 lamps											
2 x 13 W	TC-DEL	PCA 2/11/13 TCD ECO	123 x 102 x 31 mm	89.5 mm	0.25 kg	31.0 W	24.0 W	0.140 A	0.96	70 °C	-15 ... 60 °C
2 x 11 W	TC-SEL	PCA 2/11/13 TCD ECO	123 x 102 x 31 mm	89.5 mm	0.25 kg	29.5 W	22.5 W	0.132 A	0.96	70 °C	-15 ... 60 °C
2 x 18 W	TC-DEL	PCA 2/18 TCD ECO	123 x 102 x 31 mm	89.5 mm	0.25 kg	40.0 W	32.0 W	0.180 A	0.98	85 °C	-25 ... 60 °C
2 x 18 W	TC-TEL	PCA 2/18 TCD ECO	123 x 102 x 31 mm	89.5 mm	0.25 kg	40.0 W	32.0 W	0.180 A	0.98	85 °C	-25 ... 60 °C
2 x 26 W	TC-DEL	PCA 2/26 TCD ECO	123 x 102 x 31 mm	89.5 mm	0.25 kg	55.0 W	45.0 W	0.250 A	0.99	80 °C	-25 ... 50 °C
2 x 26 W	TC-TEL	PCA 2/26 TCD ECO	123 x 102 x 31 mm	89.5 mm	0.25 kg	55.0 W	45.0 W	0.250 A	0.99	80 °C	-25 ... 50 °C
2 x 32 W	TC-TEL	PCA 2/32 TCT ECO	123 x 102 x 31 mm	89.5 mm	0.25 kg	70.7 W	61.0 W	0.310 A	0.97	80 °C	-25 ... 50 °C
2 x 42 W	TC-TEL	PCA 2/42 TCT ECO	123 x 102 x 31 mm	89.5 mm	0.25 kg	91.0 W	81.0 W	0.400 A	0.98	70 °C	-25 ... 50 °C

① Valid at 100 % dimming level

② 3 % (10 % at 57 W) dimming from 0 °C to ta max.



PCA TC-DD ECO, 55 W

Compact and T5c fluorescent lamps

Product description

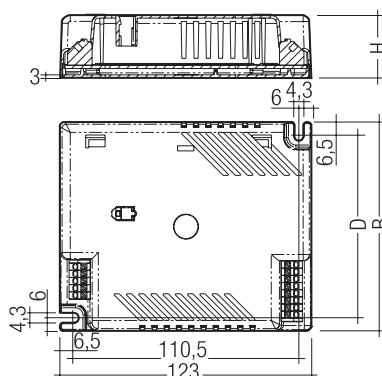
- Noise-free precise control via DSI signal or switchDIM
- CELMA energy class A1

Interfaces

- DSI
- switchDIM
- Integrated SMART-Interface

Functions

- Optimum filament heating in any dimmer setting
 - Automatically triggered emergency lighting value in DC mode, 70 %
 - For emergency lighting systems as per EN 50172
 - Automatic start after replacement of defective lamps
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 1 W
Protective hot restart	1.5 s for AC / 0.6 s for DC
Dimming range	3 – 100 %
Lamp start possible from	3 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	31 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1/55 TC-DD ECO	22086642

Packaging: 10 pieces/carton, 500 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Type	Dimensions LxWxH	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^②	Current at 230 V / 50 Hz ^①	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^②
1 x 55 W	TC-DD	PCA 1/55 TC-DD ECO	123 x 102 x 31 mm	89.5 mm	0.22 kg	59.6 W	55 W	0.26 A	0.98	85 °C	-25 ... 50 °C

^① Valid at 100 % dimming level

^② 3 % dimming from +10 °C to ta max.



PCA T5c ECO, 22 – 55 W

Compact and T5c fluorescent lamps

Product description

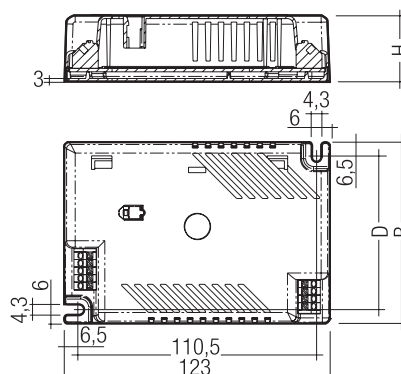
- Noise-free precise control via DSI signal or switchDIM
- CELMA energy class A1

Interfaces

- DSI
- switchDIM
- Integrated SMART-Interface

Functions

- Optimum filament heating in any dimmer setting
 - Automatically triggered emergency lighting value in DC mode, 70 %
 - For emergency lighting systems as per EN 50172
 - Automatic start after replacement of defective lamps
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 1 W
Protective hot restart	1.5 s for AC / 0.6 s for DC
Dimming range	3 – 100 %
Lamp start possible from	3 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	31 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1/22 T5c ECO	22086897
PCA 1/40 T5c ECO	22086913
PCA 1/55 T5c ECO	22176468 ^①

Packaging: 10 pieces/carton, 500 pieces/pallet

^① Available: September 2010

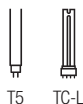
Specific technical data

Lamp wattage	Lamp type	Type	Dimensions LxWxH	Hole spacing D	Weight	Circuit power ^②	Lamp wattage ^②	Current at 230 V / 50 Hz ^②	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^③
For luminaires with 1 lamp											
1 x 22 W	T5c	PCA 1/22 T5c ECO	123 x 79 x 31 mm	66.5 mm	0.22 kg	26.1 W	22 W	0.12 A	0.96	70 °C	10 ... 60 °C
1 x 40 W	T5c	PCA 1/40 T5c ECO	123 x 79 x 31 mm	66.5 mm	0.22 kg	45.5 W	40 W	0.20 A	0.98	65 °C	10 ... 50 °C
1 x 55 W	T5c	PCA 1/55 T5c ECO ^①	123 x 79 x 31 mm	66.5 mm	0.22 kg	61.0 W	55 W	0.24 A	0.98	75 °C	10 ... 50 °C

^① ÖVE, EN 61347-2-3, not suitable for emergency lighting untis according to EN 50172

^② Valid at 100 % dimming level

^③ 3 % dimming from +10 °C to ta max.



PCA T5 EXCITE Ip xitec, 14 – 80 W T5 fluorescent lamps

Product description

- Processor-controlled ballast with xitec inside
- Multilamp management – one ballast for all T5 lamps of the same length (e.g. FH 28 W / FQ 54 W)
- Automatic lamp detection and operation with correct lamp parameters
- Noise-free precise control via switchDIM or DALI
- DALI-MEMORY
- Extended DALI commands
- OEM-specific reserved memory areas
- CELMA energy class A1 BAT

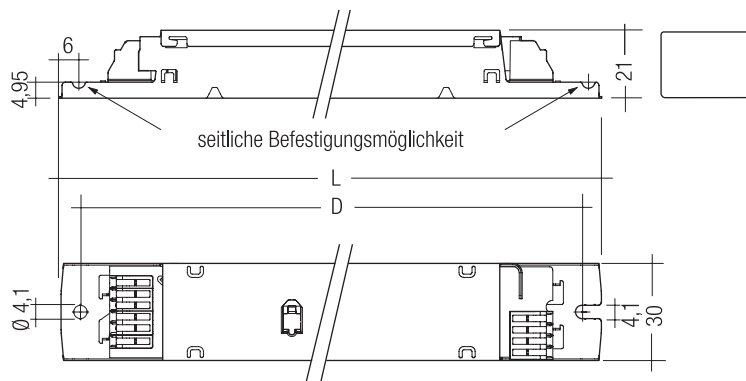
Interfaces

- DALI
- switchDIM (with memory function + selectable dimming rate)

Functions

- Intelligent Temperature Guard (protection against thermal damage)
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optimum filament heating in any dimmer setting
- Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating Concept)
- Fade rates between 50 ms and 90 s (min-max.)
- plugADDRESSING – simple configuration of lighting systems
- Dimming possible in DC mode
- Automatically triggered emergency lighting value in DC mode, can be set between 1 and 100 %
- For emergency lighting systems as per EN 50172
- Automatic start after replacement of defective lamps

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	1 – 100 %
Lamp start possible from	1 % A
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	21 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1x14/24 T5 EXCITE Ip xitec	22176257
PCA 1x21/39 T5 EXCITE Ip xitec	22176258
PCA 1x28/54 T5 EXCITE Ip xitec	22176205
PCA 1x35/49/80 T5 EXCITE Ip xitec	22176204
For luminaires with 2 lamps	
PCA 2x14/24 T5 EXCITE Ip xitec	22176259
PCA 2x21/39 T5 EXCITE Ip xitec	22176260
PCA 2x28/54 T5 EXCITE Ip xitec	22176206
PCA 2x35/49 T5 EXCITE Ip xitec	22176207

Packaging 360 mm casing: 10 pieces/carton, 760 pieces/pallet

Packaging 425 mm casing: 25 pieces/carton, 825 pieces/pallet



Product matrix, page 86

Standards, page 86

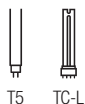
Wiring diagrams and installation examples, page 136

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz ^①	λ at 230 V / 50 Hz	tc point	Ambient temperature ta ^②
For luminaires with 1 lamp											
1 x 14 W	T5	PCA 1x14/24 T5 EXCITE lp xitec	360 mm	350 mm	0.250 kg	16.0 W	14 W	0.08 A	0.95	80 °C	-25 ... 60 °C
1 x 24 W	T5	PCA 1x14/24 T5 EXCITE lp xitec	360 mm	350 mm	0.250 kg	25.5 W	24 W	0.12 A	0.97	80 °C	-25 ... 60 °C
1 x 24 W	TC-L	PCA 1x14/24 T5 EXCITE lp xitec	360 mm	350 mm	0.250 kg	25.5 W	22 W	0.12 A	0.97	80 °C	-25 ... 60 °C
1 x 21 W	T5	PCA 1x21/39 T5 EXCITE lp xitec	360 mm	350 mm	0.251 kg	23.5 W	21 W	0.11 A	0.95	85 °C	-25 ... 60 °C
1 x 39 W	T5	PCA 1x21/39 T5 EXCITE lp xitec	360 mm	350 mm	0.251 kg	42.0 W	39 W	0.20 A	0.97	85 °C	-25 ... 60 °C
1 x 40 W	TC-L	PCA 1x21/39 T5 EXCITE lp xitec	360 mm	350 mm	0.251 kg	42.0 W	39 W	0.19 A	0.97	80 °C	-25 ... 60 °C
1 x 28 W	T5	PCA 1x28/54 T5 EXCITE lp xitec	360 mm	350 mm	0.260 kg	30.5 W	28 W	0.15 A	0.95	80 °C	-25 ... 60 °C
1 x 54 W	T5	PCA 1x28/54 T5 EXCITE lp xitec	360 mm	350 mm	0.260 kg	59.5 W	54 W	0.27 A	0.98	85 °C	-25 ... 60 °C
1 x 35 W	T5	PCA 1x35/49/80 T5 EXCITE lp xitec	360 mm	350 mm	0.270 kg	38.5 W	35 W	0.18 A	0.97	80 °C	-25 ... 60 °C
1 x 49 W	T5	PCA 1x35/49/80 T5 EXCITE lp xitec	360 mm	350 mm	0.270 kg	53.0 W	49 W	0.24 A	0.97	80 °C	-25 ... 60 °C
1 x 80 W	T5	PCA 1x35/49/80 T5 EXCITE lp xitec	360 mm	350 mm	0.270 kg	86.5 W	80 W	0.39 A	0.98	85 °C	-25 ... 60 °C
For luminaires with 2 lamps											
2 x 14 W	T5	PCA 2x14/24 T5 EXCITE lp xitec	360 mm	350 mm	0.280 kg	32.5 W	28 W	0.15 A	0.97	80 °C	-25 ... 60 °C
2 x 24 W	T5	PCA 2x14/24 T5 EXCITE lp xitec	360 mm	350 mm	0.280 kg	51.0 W	48 W	0.23 A	0.98	85 °C	-25 ... 60 °C
2 x 24 W	TC-L	PCA 2x14/24 T5 EXCITE lp xitec	360 mm	350 mm	0.280 kg	51.5 W	44 W	0.23 A	0.98	85 °C	-25 ... 60 °C
2 x 21 W	T5	PCA 2x21/39 T5 EXCITE lp xitec	425 mm	415 mm	0.350 kg	45.5 W	42 W	0.21 A	0.97	80 °C	-25 ... 60 °C
2 x 39 W	T5	PCA 2x21/39 T5 EXCITE lp xitec	425 mm	415 mm	0.350 kg	82.5 W	78 W	0.38 A	0.99	85 °C	-25 ... 60 °C
2 x 28 W	T5	PCA 2x28/54 T5 EXCITE lp xitec	425 mm	415 mm	0.350 kg	60.5 W	56 W	0.28 A	0.97	80 °C	-25 ... 60 °C
2 x 54 W	T5	PCA 2x28/54 T5 EXCITE lp xitec	425 mm	415 mm	0.350 kg	116.5 W	108 W	0.53 A	0.99	85 °C	-25 ... 55 °C
2 x 35 W	T5	PCA 2x35/49 T5 EXCITE lp xitec	425 mm	415 mm	0.331 kg	75.0 W	70 W	0.33 A	0.97	80 °C	-25 ... 60 °C
2 x 49 W	T5	PCA 2x35/49 T5 EXCITE lp xitec	425 mm	415 mm	0.331 kg	105.5 W	98 W	0.47 A	0.98	85 °C	-25 ... 60 °C

① Valid at 100 % dimming level

② +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %. -25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



PCA T5 EXCEL one4all Ip x!tec, 14 – 80 W T5 fluorescent lamps

Product description

- Processor-controlled ballast with x!tec inside
- Multilamp management – one ballast for all T5 lamps of the same length (e.g. FH 28 W / FQ 54 W)
- Automatic lamp detection and operation with correct lamp parameters
- Noise-free precise control via DSI signal, switchDIM, corridorFUNCTION or DALI
- DALI-MEMORY
- Extended DALI commands
- OEM-specific reserved memory areas
- CELMA energy class A1 BAT

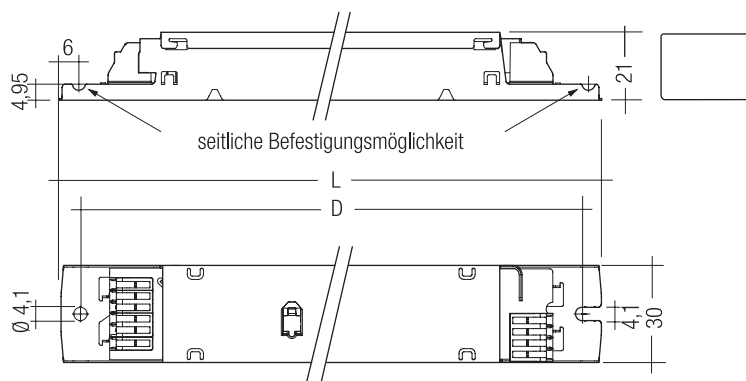
Interfaces

- DALI
- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (3 preprogrammed profiles + individually programmable)
- Integrated SMART-Interface

Functions

- Intelligent Temperature Guard (protection against thermal damage)
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optimum filament heating in any dimmer setting
- Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating Concept)
- Fade rates between 50 ms and 90 s (min-max.)
- plugADDRESSING – simple configuration of lighting systems
- corridorFUNCTION with daylight control
- Dimming possible in DC mode
- Automatically triggered emergency lighting value in DC mode, can be set between 1 and 100 %
- For emergency lighting systems as per EN 50172
- Automatic start after replacement of defective lamps
- Backwards compatible

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	<0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	1 – 100 %
Lamp start possible from	1 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	21 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1x14/24 T5 EXCEL one4all Ip x!tec	22176178
PCA 1x21/39 T5 EXCEL one4all Ip x!tec	22176176
PCA 1x28/54 T5 EXCEL one4all Ip x!tec	22176174
PCA 1x35/49/80 T5 EXCEL one4all Ip x!tec	22176172
For luminaires with 2 lamps	
PCA 2x14/24 T5 EXCEL one4all Ip x!tec	22176179
PCA 2x21/39 T5 EXCEL one4all Ip x!tec	22176177
PCA 2x28/54 T5 EXCEL one4all Ip x!tec	22176175
PCA 2x35/49 T5 EXCEL one4all Ip x!tec	22176173
PCA 2/80 T5 EXCEL one4all Ip	22176053

Packaging 360 mm casing: 10 pieces/carton, 760 pieces/pallet
Packaging 425 mm casing: 25 pieces/carton, 825 pieces/pallet



Product matrix, page 86

Standards, page 86

Wiring diagrams and installation examples, page 136

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Circuit power ^②	Lamp wattage ^②	Current at 230 V / 50 Hz ^②	λ at 230 V / 50 Hz	tc point	Ambient temperature ta ^③
For luminaires with 1 lamp											
1 x 14 W	T5	PCA 1x14/24 T5 EXCEL one4all lp xitec	360 mm	350 mm	0.25 kg	16.0 W	14 W	0.08 A	0.95	80 °C	-25 ... 60 °C
1 x 24 W	T5	PCA 1x14/24 T5 EXCEL one4all lp xitec	360 mm	350 mm	0.25 kg	25.5 W	23 W	0.12 A	0.97	80 °C	-25 ... 60 °C
1 x 24 W	TC-L	PCA 1x14/24 T5 EXCEL one4all lp xitec	360 mm	350 mm	0.25 kg	25.5 W	22 W	0.12 A	0.97	80 °C	-25 ... 60 °C
1 x 21 W	T5	PCA 1x21/39 T5 EXCEL one4all lp xitec	360 mm	350 mm	0.28 kg	23.5 W	21 W	0.11 A	0.95	85 °C	-25 ... 60 °C
1 x 39 W	T5	PCA 1x21/39 T5 EXCEL one4all lp xitec	360 mm	350 mm	0.28 kg	42.0 W	38 W	0.20 A	0.97	85 °C	-25 ... 60 °C
1 x 40 W	TC-L	PCA 1x21/39 T5 EXCEL one4all lp xitec	360 mm	350 mm	0.28 kg	42.5 W	40 W	0.19 A	0.97	80 °C	-25 ... 60 °C
1 x 28 W	T5	PCA 1x28/54 T5 EXCEL one4all lp xitec	360 mm	350 mm	0.26 kg	30.5 W	28 W	0.15 A	0.95	80 °C	-25 ... 60 °C
1 x 54 W	T5	PCA 1x28/54 T5 EXCEL one4all lp xitec	360 mm	350 mm	0.26 kg	59.5 W	54 W	0.27 A	0.98	85 °C	-25 ... 60 °C
1 x 35 W	T5	PCA 1x35/49/80 T5 EXCEL one4all lp xitec	360 mm	350 mm	0.27 kg	38.5 W	35 W	0.18 A	0.97	80 °C	-25 ... 60 °C
1 x 49 W	T5	PCA 1x35/49/80 T5 EXCEL one4all lp xitec	360 mm	350 mm	0.27 kg	53.0 W	49 W	0.24 A	0.97	80 °C	-25 ... 60 °C
1 x 80 W	T5	PCA 1x35/49/80 T5 EXCEL one4all lp xitec	360 mm	350 mm	0.27 kg	86.5 W	80 W	0.39 A	0.98	85 °C	-25 ... 60 °C
For luminaires with 2 lamps											
2 x 14 W	T5	PCA 2x14/24 T5 EXCEL one4all lp xitec	360 mm	350 mm	0.28 kg	32.5 W	28 W	0.15 A	0.97	80 °C	-25 ... 60 °C
2 x 24 W	T5	PCA 2x14/24 T5 EXCEL one4all lp xitec	360 mm	350 mm	0.28 kg	51.0 W	46 W	0.23 A	0.98	85 °C	-25 ... 60 °C
2 x 24 W	TC-L	PCA 2x14/24 T5 EXCEL one4all lp xitec	360 mm	350 mm	0.28 kg	51.5 W	44 W	0.23 A	0.98	85 °C	-25 ... 60 °C
2 x 21 W	T5	PCA 2x21/39 T5 EXCEL one4all lp xitec	425 mm	415 mm	0.35 kg	45.5 W	42 W	0.21 A	0.97	80 °C	-25 ... 60 °C
2 x 39 W	T5	PCA 2x21/39 T5 EXCEL one4all lp xitec	425 mm	415 mm	0.35 kg	82.5 W	76 W	0.38 A	0.99	85 °C	-25 ... 60 °C
2 x 28 W	T5	PCA 2x28/54 T5 EXCEL one4all lp xitec	425 mm	415 mm	0.35 kg	60.5 W	56 W	0.28 A	0.97	80 °C	-25 ... 60 °C
2 x 54 W	T5	PCA 2x28/54 T5 EXCEL one4all lp xitec	425 mm	415 mm	0.35 kg	116.5 W	108 W	0.53 A	0.99	85 °C	-25 ... 55 °C
2 x 35 W	T5	PCA 2x35/49 T5 EXCEL one4all lp xitec	425 mm	415 mm	0.34 kg	75.0 W	70 W	0.33 A	0.97	80 °C	-25 ... 60 °C
2 x 49 W	T5	PCA 2x35/49 T5 EXCEL one4all lp xitec	425 mm	415 mm	0.34 kg	105.5 W	98 W	0.47 A	0.98	85 °C	-25 ... 60 °C
2 x 80 W	T5	PCA 2/80 T5 EXCEL one4all lp ^①	425 mm	415 mm	0.35 kg	164.5 W	160 W	0.75 A	0.99	80 °C	-25 ... 50 °C

① Single wattage, basic corridorFUNCTION – see commissioning manual, power draw on standby < 0.5 W (< 0.8 W for switchDIM, DSI and corridorFUNCTION)

② Valid at 100 % dimming level

③ +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %. -25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



PCA T5 EXCEL one4all, 2 x 54 W
T5 fluorescent lamps

Product description

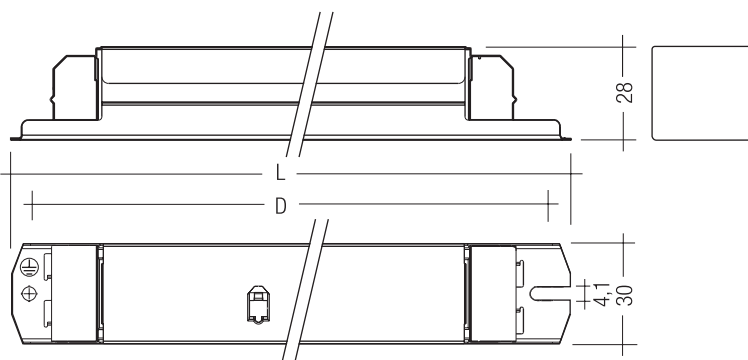
- Noise-free precise control via DSI signal, switchDIM, corridorFUNCTION or DALI
- DALI-MEMORY
- Extended DALI commands
- CELMA energy class A1

Interfaces

- DALI
- DSI
- switchDIM (with memory function)
- corridorFUNCTION (individually programmable)
- Integrated SMART-Interface

Functions

- Automatically triggered emergency lighting value in DC mode, 70 %
 - For emergency lighting systems as per EN 50172
 - Automatic start after replacement of defective lamps
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 1 W
Protective hot restart	1.5 s for AC / 0.6 s for DC
Dimming range	3 – 100 %
Lamp start possible from	3 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	28 mm

Ordering data

Type	Article number
For luminaires with 2 lamps	
PCA 2/54 T5 EXCEL one4all	22084597

Packaging: 25 pieces/carton, 700 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz ^①	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^②
2 x 54 W	T5	PCA 2/54 T5 EXCEL one4all	360 mm	350 mm	0.36 kg	116 W	104 W	0.5 A	0.99	75 °C	10 ... 50 °C

^① Valid at 100 % dimming level

^② 1 % dimming from 10 °C to ta max.



PCA T5 EXCEL one4all Ip xitec 3 and 4x14/24 W T5 fluorescent lamps

Product description

- Processor-controlled ballast with xitec inside
- Multi-lamp management – one ballast for T5 lamps of the same length (14 / 24 W)
- Automatic lamp detection and operation with correct lamp parameters
- Noise-free precise control via DSI signal, switchDIM, corridorFUNCTION or DALI
- DALI-MEMORY
- Extended DALI commands
- OEM-specific reserved memory areas
- CELMA energy class A1 BAT

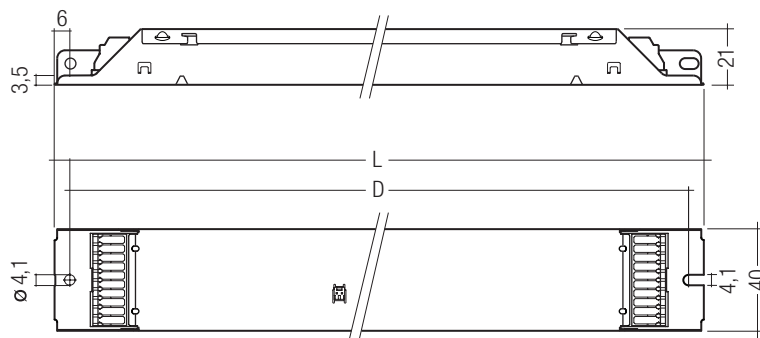
Interfaces

- DALI
- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (3 preprogrammed profiles + individually programmable)
- Integrated SMART-Interface

Functions

- Intelligent Temperature Guard (protection against thermal damage)
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optimum filament heating in any dimmer setting
- Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating Concept)
- Fade rates between 50 ms and 90 s (min-max.)
- plugADDRESSING – simple configuration of lighting systems
- corridorFUNCTION with daylight control
- Dimming possible in DC mode
- Automatically triggered emergency lighting value in DC mode, can be set between 1 and 100 %
- For emergency lighting systems as per EN 50172
- Automatic start after replacement of defective lamps
- Backwards compatible

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range, 3 lamps	5 – 100 %
Dimming range, 4 lamps	1 – 100 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	21 mm

Ordering data

Type	Article number
For luminaires with 3 lamps	
PCA 3x14/24 T5 EXCEL one4all Ip xitec	22176209
For luminaires with 4 lamps	
PCA 4x14/24 T5 EXCEL one4all Ip xitec	22176210

Packaging 360 mm casing: 20 pieces/carton, 600 pieces/pallet



Product matrix, page 86

Standards, page 86

Wiring diagrams and installation examples, page 136

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz ^①	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^②
For luminaires with 3 lamps											
3 x 14 W	T5	PCA 3x14/24 T5 EXCEL one4all lp xttec	360 mm	350 mm	0.29 kg	46.5 W	42 W	0.21 A	0.97	75 °C	-25 ... 60 °C
3 x 24 W	T5	PCA 3x14/24 T5 EXCEL one4all lp xttec	360 mm	350 mm	0.29 kg	73.0 W	72 W	0.32 A	0.97	75 °C	-25 ... 55 °C
For luminaires with 4 lamps											
4 x 14 W	T5	PCA 4x14/24 T5 EXCEL one4all lp xttec	360 mm	350 mm	0.33 kg	60.5 W	56 W	0.27 A	0.97	75 °C	-25 ... 60 °C
4 x 24 W	T5	PCA 4x14/24 T5 EXCEL one4all lp xttec	360 mm	350 mm	0.33 kg	97.5 W	96 W	0.43 A	0.97	75 °C	-25 ... 50 °C

^① Valid at 100 % dimming level

^② +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %. -25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



PCA T5 EXCEL one4all Ip, 2 x 28 W
T5 fluorescent lamps

Product description

- Noise-free precise control via DSI signal, switchDIM, corridorFUNCTION or DALI
- Extended DALI commands
- DALI-MEMORY
- CELMA energy class A1 BAT

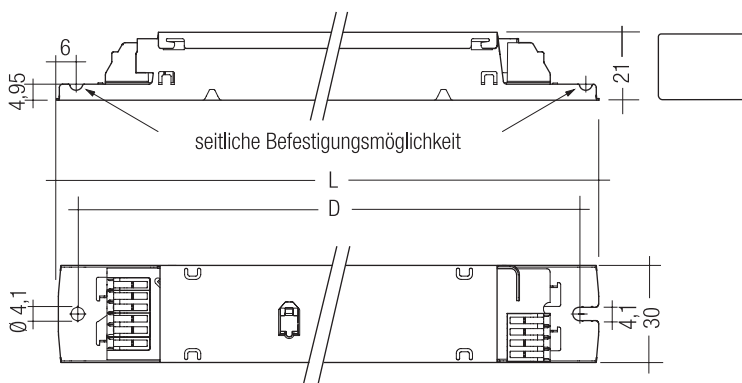
Interfaces

- DALI
- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (individually programmable)
- Integrated SMART-Interface

Functions

- Intelligent Temperature Guard (protection against thermal damage)
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optimum filament heating in any dimmer setting
- Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating Concept)
- Fade rates between 50 ms and 90 s (min-max.)
- Dimming possible in DC mode
- Automatically triggered emergency lighting value in DC mode, can be set between 1 and 70 %
- For emergency lighting systems as per EN 50172
- Automatic start after replacement of defective lamps
- Backwards compatible

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 0.8 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	1 – 100 %
Lamp start possible from	1 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	21 mm

Ordering data

Type	Article number
For luminaires with 2 lamps	
PCA 2/28 T5 EXCEL one4all Ip	22088489
Packaging 360 mm casing: 10 pieces/carton, 760 pieces/pallet	
Packaging 425 mm casing: 25 pieces/carton, 825 pieces/pallet	



Product matrix, page 86

Standards, page 86

Wiring diagrams and installation examples, page 136

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz ^①	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^②
For luminaires with 2 lamps											
2 x 28 W	T5	PCA 2/28 T5 EXCEL one4all Ip	360 mm	350 mm	0.28 kg	61.3 W	56 W	0.27 A	0.99	80 °C	-25 ... 50 °C

^① Valid at 100 % dimming level

^② +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %. -25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



PCA T8 EXCEL one4all, 18 – 38 W
T8 fluorescent lamps

Product description

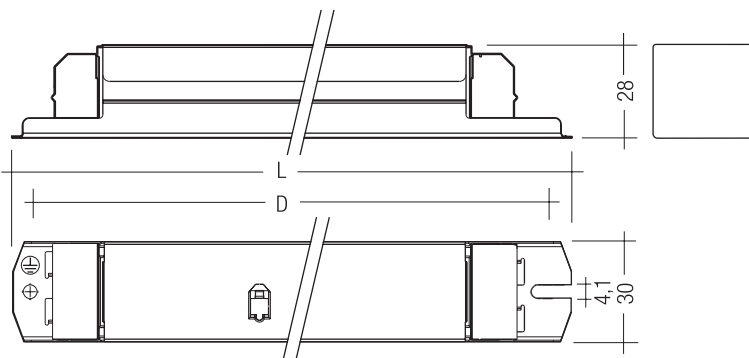
- Noise-free precise control via DSI signal, switchDIM, corridorFUNCTION or DALI
- DALI-MEMORY
- CELMA energy class A1

Interfaces

- DALI
- DSI
- switchDIM (with memory function)
- corridorFUNCTION (individually programmable)
- Integrated SMART-Interface

Functions

- Optimum filament heating in any dimmer setting
 - Fade rates between 50 ms and 90 s (min-max.)
 - Automatically triggered emergency lighting value in DC mode, can be set between 1 and 70 %
 - For emergency lighting systems as per EN 50172
 - Automatic start after replacement of defective lamps
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 1 W
Protective hot restart	0.6 s
Dimming range	1 – 100 %
Lamp start possible from	1 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	28 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1/18 EXCEL one4all	22085245
PCA 1/30 EXCEL one4all	22086092
PCA 1/38 EXCEL one4all	22087027
For luminaires with 2 lamps	
PCA 2/18 EXCEL one4all	22085251
PCA 2/30 EXCEL one4all	22086107
PCA 2/38 EXCEL one4all	22087033

Packaging: 10 pieces/carton, 580 pieces/pallet



Product matrix, page 86

Standards, page 86

Wiring diagrams and installation examples, page 136

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz ^①	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^②
For luminaires with 1 lamp											
1 x 18 W	T8	PCA 1/18 EXCEL one4all	360 mm	350 mm	0.32 kg	20.8 W	16 W	0.100 A	0.93	65 °C	-25 ... 60 °C
1 x 30 W	T8	PCA 1/30 EXCEL one4all	360 mm	350 mm	0.32 kg	30.1 W	25 W	0.135 A	0.96	80 °C	-25 ... 60 °C
1 x 38 W	T8	PCA 1/38 EXCEL one4all	360 mm	350 mm	0.32 kg	37.3 W	32 W	0.170 A	0.98	70 °C	-25 ... 60 °C
For luminaires with 2 lamps											
2 x 18 W	T8	PCA 2/18 EXCEL one4all	360 mm	350 mm	0.36 kg	39.6 W	32 W	0.180 A	0.96	75 °C	-25 ... 60 °C
2 x 30 W	T8	PCA 2/30 EXCEL one4all	360 mm	350 mm	0.36 kg	58.0 W	50 W	0.260 A	0.98	75 °C	-25 ... 60 °C
2 x 38 W	T8	PCA 2/38 EXCEL one4all	360 mm	350 mm	0.36 kg	71.1 W	64 W	0.315 A	0.99	75 °C	-25 ... 60 °C

^① Valid at 100 % dimming level

^② 1 % dimming from 0 °C to ta max.



NEW

PCA T8 EXCEL one4all Ip x!tec, 36 – 58 W T8 fluorescent lamps

Product description

- Processor-controlled ballast with x!tec inside
- Noise-free precise control via DSI signal, switchDIM, corridorFUNCTION or DALI
- DALI-MEMORY
- Extended DALI commands
- OEM-specific reserved memory areas
- CELMA energy class A1 BAT

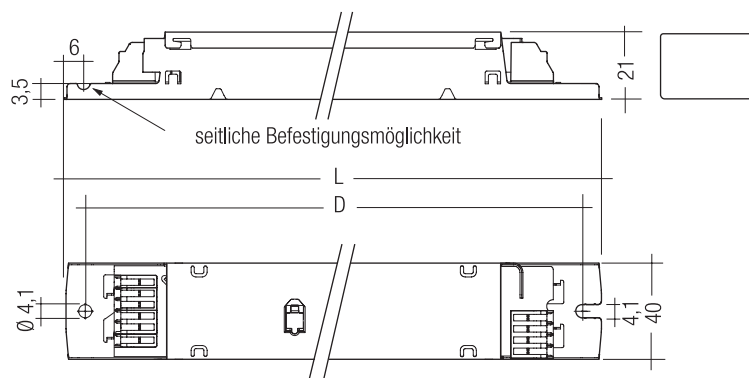
Interfaces

- DALI
- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (3 preprogrammed profiles + individually programmable)
- Integrated SMART-Interface

Functions

- Intelligent Temperature Guard (protection against thermal damage)
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optimum filament heating in any dimmer setting
- Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating Concept)
- Fade rates between 50 ms and 90 s (min-max.)
- plugADDRESSING – simple configuration of lighting systems
- corridorFUNCTION with daylight control
- Dimming possible in DC mode
- Automatically triggered emergency lighting value in DC mode, can be set between 1 and 100 %
- For emergency lighting systems as per EN 50172
- Backwards compatible
- Automatic start after replacement of defective lamps

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	1 – 100 %
Lamp start possible from	1 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	21 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1x36 T8 EXCEL one4all Ip x!tec	22176239
PCA 1x58 T8 EXCEL one4all Ip x!tec	22176235
For luminaires with 2 lamps	
PCA 2x36 T8 EXCEL one4all Ip x!tec	22176240
PCA 2x58 T8 EXCEL one4all Ip x!tec	22176237

Packaging 360 mm casing: 10 pieces/carton, 760 pieces/pallet

Packaging 425 mm casing: 25 pieces/carton, 825 pieces/pallet



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Standards, page 86

Wiring diagrams and installation examples, page 136

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz ^①	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^②
For luminaires with 1 lamp											
1 x 36 W	T8	PCA 1x36 T8 EXCEL one4all Ip xrttec	360 mm	350 mm	0.25 kg	35.3 W	36 W	0.15 A	0.96	75 °C	-25 ... 60 °C
1 x 58 W	T8	PCA 1x58 T8 EXCEL one4all Ip xrttec	360 mm	350 mm	0.27 kg	53.6 W	58 W	0.23 A	0.97	75 °C	-25 ... 60 °C
For luminaires with 2 lamps											
2 x 36 W	T8	PCA 2x36 T8 EXCEL one4all Ip xrttec	360 mm	350 mm	0.28 kg	68.5 W	72 W	0.30 A	0.98	80 °C	-25 ... 60 °C
2 x 58 W	T8	PCA 2x58 T8 EXCEL one4all Ip xrttec	425 mm	415 mm	0.34 kg	107.8 W	116 W	0.47 A	0.99	80 °C	-25 ... 50 °C

^① Valid at 100 % dimming level

^② 0 °C to ta max: unrestricted dimming. -25 °C to 0 °C: unrestricted dimming from 100 % to 30 %. -25 °C to 0 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



PCA T8 3/18 EXCEL one4all + PCA T8 4/18 EXCEL one4all
T8 fluorescent lamps

Product description

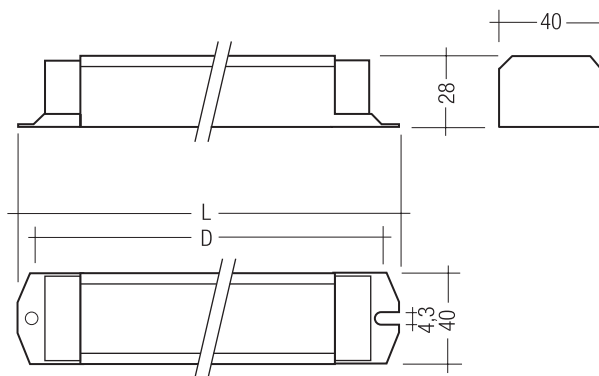
- Noise-free precise control via DSI signal, switchDIM or DALI
- CELMA energy class A1

Interfaces

- DALI
- DSI
- switchDIM (with memory function)
- Integrated SMART-Interface

Functions

- Automatically triggered emergency lighting value in DC mode, 70 %
 - For emergency lighting systems as per EN 50172
 - Automatic start after replacement of defective lamps
- For product data sheet go to www.tridonic.com, or available on request



Product matrix, page 86

Standards, page 86

Wiring diagrams and installation examples, page 136

Technical data

Power input on standby	< 1 W
Protective hot restart	1.5 s for AC / 0.6 s for DC
Dimming range	10 – 100 %
Lamp start possible from	10 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	28 mm

Ordering data

Type	Article number
For luminaires with 3 lamps	
PCA 3/18 EXCEL one4all	22086715
For luminaires with 4 lamps	
PCA 4/18 EXCEL one4all	22086699

Packaging: 20 pieces/carton, 600 pieces/pallet

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz ^①	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^②
For luminaires with 3 lamps											
3 x 18 W	T8	PCA 3/18 EXCEL one4all	360 mm	340 – 350 mm	0.38 kg	57.7 W	48 W	0.26 A	0.97	75 °C	-25 ... 50 °C
For luminaires with 4 lamps											
4 x 18 W	T8	PCA 4/18 EXCEL one4all	360 mm	340 – 350 mm	0.40 kg	77.5 W	64 W	0.34 A	0.99	80 °C	-25 ... 60 °C

^① Valid at 100 % dimming level

^② 10 % dimming from 0 °C to ta max.



PCA TCL EXCEL one4all, 18 – 80 W

Compact and T5c fluorescent lamps

Product description

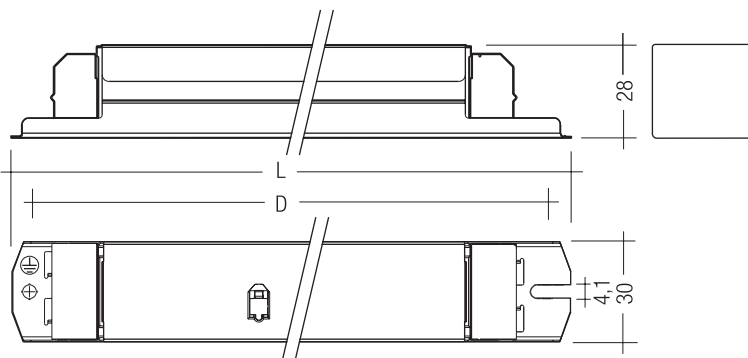
- Noise-free precise control via DSI signal, switchDIM, corridorFUNCTION or DALI
- DALI-MEMORY
- Extended DALI commands
- CELMA energy class A1

Interfaces

- DALI
- DSI
- switchDIM (with memory function)
- corridorFUNCTION (individually programmable)
- Integrated SMART-Interface

Functions

- Optimum filament heating in any dimmer setting
 - Fade rates between 50 ms and 90 s (min-max.)
 - Automatically triggered emergency lighting value in DC mode, can be set between 1 and 70 %
 - For emergency lighting systems as per EN 50172
 - Automatic start after replacement of defective lamps
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 1 W
Protective hot restart	0.6 s / 1.5 s for AC (55 W, 80 W, 2 x 18 W and 2 x 55 W)
Dimming range	3 – 100 %
Lamp start possible from	3 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	28 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1/36 TCL EXCEL one4all	22085346
PCA 1/55 TCL EXCEL one4all	22085387
PCA 1/80 TCL EXCEL one4all	22089004
For luminaires with 2 lamps	
PCA 2/18 TCL EXCEL one4all	22086840
PCA 2/36 TCL EXCEL one4all	22176469
PCA 2/40 TCL EXCEL one4all	22085371 ^①
PCA 2/55 TCL EXCEL one4all	22085393

Packaging: 10 pieces/carton, 580 pieces/pallet

^① Available: September 2010



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Wiring diagrams and installation examples, page 136

Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz ^①	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^②
For luminaires with 1 lamp											
1 x 36 W	TC-L	PCA 1/36 TCL EXCEL one4all	360 mm	350 mm	0.32 kg	37.5 W	32 W	0.165 A	0.97	75 °C	-25 ... 60 °C
1 x 55 W	TC-L	PCA 1/55 TCL EXCEL one4all	360 mm	350 mm	0.32 kg	61.5 W	55 W	0.270 A	0.99	80 °C	-25 ... 60 °C
1 x 80 W	TC-L	PCA 1/80 TCL EXCEL one4all	360 mm	350 mm	0.32 kg	90.0 W	80 W	0.399 A	0.98	70 °C	-25 ... 50 °C
For luminaires with 2 lamps											
2 x 18 W	TC-L	PCA 2/18 TCL EXCEL one4all	360 mm	350 mm	0.36 kg	42.0 W	30 W	0.165 A	0.98	80 °C	-20 ... 50 °C
2 x 36 W	TC-F	PCA 2/36 TCL EXCEL one4all	360 mm	350 mm	0.36 kg	74.0 W	64 W	0.325 A	0.99	85 °C	-25 ... 60 °C
2 x 36 W	TC-L	PCA 2/36 TCL EXCEL one4all	360 mm	350 mm	0.36 kg	74.0 W	64 W	0.325 A	0.99	80 °C	-25 ... 60 °C
2 x 40 W	TC-L	PCA 2/40 TCL EXCEL one4all	360 mm	350 mm	0.36 kg	87.9 W	76 W	0.380 A	0.99	75 °C	-25 ... 60 °C
2 x 55 W	TC-L	PCA 2/55 TCL EXCEL one4all	360 mm	350 mm	0.36 kg	118.9 W	110 W	0.520 A	0.98	70 °C	-25 ... 50 °C

^① Valid at 100 % dimming level

^② 3 % dimming from +10 °C to ta max.



NEW

PCA TCL EXCEL one4all Ip x!tec, 55 W

Compact and T5c fluorescent lamps

Product description

- Processor-controlled ballast with x!tec inside
- Noise-free precise control via DSI signal, switchDIM, corridorFUNCTION or DALI
- DALI-MEMORY
- Extended DALI commands
- OEM-specific reserved memory areas
- CELMA energy class A1 BAT

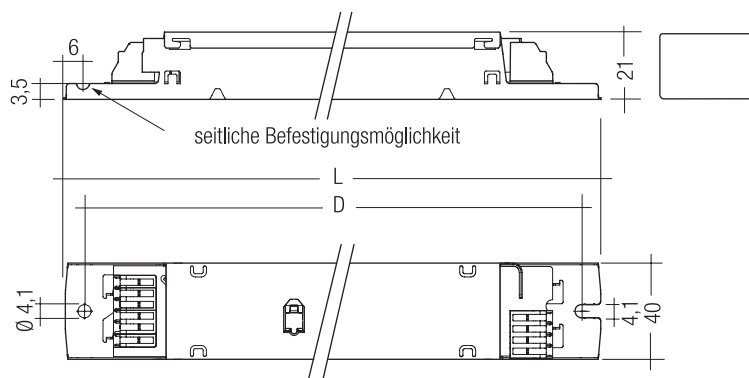
Interfaces

- DALI
- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (3 preprogrammed profiles + individually programmable)
- Integrated SMART-Interface

Functions

- Intelligent Temperature Guard (protection against thermal damage)
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optimum filament heating in any dimmer setting
- Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating Concept)
- Fade rates between 50 ms and 90 s (min-max.)
- plugADDRESSING – simple configuration of lighting systems
- corridorFUNCTION with daylight control
- Dimming possible in DC mode
- Automatically triggered emergency lighting value in DC mode, can be set between 1 and 100 %
- For emergency lighting systems as per EN 50172
- Automatic start after replacement of defective lamps
- Backwards compatible

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	1 – 100 %
Lamp start possible from	1 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	21 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1x55 TCL EXCEL one4all Ip x!tec	22176236
For luminaires with 2 lamps	
PCA 2x55 TCL EXCEL one4all Ip x!tec	22176238



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Specific technical data

Lamp wattage	Lamp type	Type	Length L	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz ^①	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^②
For luminaires with 1 lamp											
1 x 55 W	TC-L	PCA 1x55 TCL EXCEL one4all lp xrtec	360 mm	350 mm	0.27 kg	59 W	55 W	0.26 A	0.98	80 °C	-25 ... 60 °C
For luminaires with 2 lamps											
2 x 55 W	TC-L	PCA 2x55 TCL EXCEL one4all lp xrtec	425 mm	415 mm	0.34 kg	118 W	110 W	0.51 A	0.99	80 °C	-25 ... 50 °C

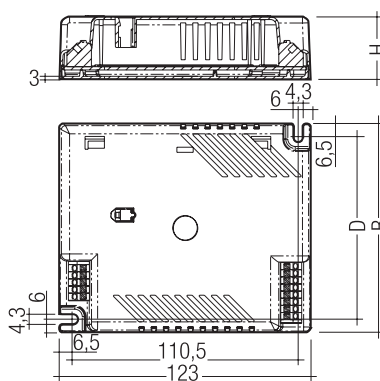
^① Valid at 100 % dimming level

^② +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %. -25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



PCA TCL EXCEL c one4all, 18 – 24 W

Compact and T5c fluorescent lamps



Product description

- Noise-free precise control via DSI signal, switchDIM, corridorFUNCTION or DALI
- DALI-MEMORY
- Extended DALI commands
- CELMA energy class A1

Interfaces

- DALI
- DSI
- switchDIM (with memory function)
- corridorFUNCTION (individually programmable)
- Integrated SMART-Interface

Functions

- Optimum filament heating in any dimmer setting
 - Fade rates between 50 ms and 90 s (min-max.)
 - Automatically triggered emergency lighting value in DC mode, can be set between 1 and 70 %
 - For emergency lighting systems as per EN 50172
 - Automatic start after replacement of defective lamps
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Power input on standby	< 1 W
Protective hot restart	0.6 s for AC and DC / 1.5 s for AC (2 x 18 W)
Dimming range	3 – 100 %
Lamp start possible from	3 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	31 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1/18 TCL EXCEL c one4all	22085309
PCA 1/24 TCL EXCEL c one4all	22176459 ^①
For luminaires with 2 lamps	
PCA 2/18 TCL EXCEL c one4all	22085318
PCA 2/24 TCL EXCEL c one4all	22176461 ^①

Packaging: 10 pieces/carton, 500 pieces/pallet

^① Available: September 2010

Specific technical data

Lamp wattage	Lamp type	Type	Dimensions LxWxH	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz ^①	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^②
For luminaires with 1 lamp											
1 x 18 W	TC-F	PCA 1/18 TCL EXCEL c one4all	123 x 79 x 31 mm	66.5 mm	0.22 kg	21 W	15 W	0.09 A	0.95	80 °C	-25 ... 50 °C
1 x 18 W	TC-L	PCA 1/18 TCL EXCEL c one4all	123 x 79 x 31 mm	66.5 mm	0.22 kg	21 W	15 W	0.09 A	0.95	80 °C	-25 ... 50 °C
1 x 24 W	TC-F	PCA 1/24 TCL EXCEL c one4all	123 x 79 x 31 mm	66.5 mm	0.22 kg	27 W	22 W	0.12 A	0.96	75 °C	-25 ... 60 °C
1 x 24 W	TC-L	PCA 1/24 TCL EXCEL c one4all	123 x 79 x 31 mm	66.5 mm	0.22 kg	27 W	22 W	0.12 A	0.96	75 °C	-25 ... 60 °C
For luminaires with 2 lamps											
2 x 18 W	TC-F	PCA 2/18 TCL EXCEL c one4all	123 x 102 x 31 mm	89.5 mm	0.25 kg	42 W	30 W	0.18 A	0.95	80 °C	-25 ... 50 °C
2 x 18 W	TC-L	PCA 2/18 TCL EXCEL c one4all	123 x 102 x 31 mm	89.5 mm	0.25 kg	42 W	30 W	0.18 A	0.95	80 °C	-25 ... 50 °C
2 x 24 W	TC-F	PCA 2/24 TCL EXCEL c one4all	123 x 102 x 31 mm	89.5 mm	0.25 kg	52 W	44 W	0.23 A	0.98	80 °C	-25 ... 60 °C
2 x 24 W	TC-L	PCA 2/24 TCL EXCEL c one4all	123 x 102 x 31 mm	89.5 mm	0.25 kg	52 W	44 W	0.23 A	0.98	80 °C	-25 ... 60 °C

^① Valid at 100 % dimming level

^② 3 % dimming from +10 °C to ta max.



Compact and T5c fluorescent lamps

Compact and T5c fluorescent lamps

Product description

- Noise-free precise control via DSI signal, switchDIM, corridorFUNCTION or DALI
- DALI-MEMORY
- Extended DALI commands
- CELMA energy class A1

Interfaces

- DALI
- DSI
- switchDIM (with memory function)
- corridorFUNCTION (individually programmable)
- Integrated SMART-Interface

Functions

- Optimum filament heating in any dimmer setting
- Fade rates between 50 ms and 90 s (min-max.)
- Automatically triggered emergency lighting value in DC mode, can be set between 1 and 70 %
- For emergency lighting systems as per EN 50172
- Automatic start after replacement of defective lamps

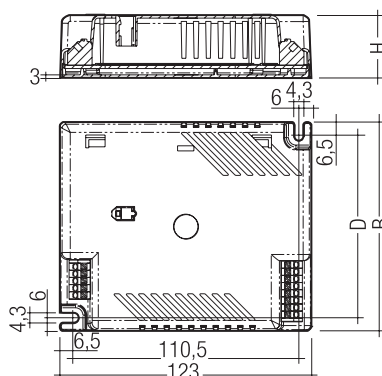
→ For product data sheet go to www.tridonic.com,
or available on request



Product matrix, page 86

Standards, page 86

Wiring diagrams and installation examples, page 136



Technical data

Power input on standby	< 1 W
Protective hot restart	0.6 s
Dimming range	3 – 100 % (10 - 100 % at 57 W)
Lamp start possible from	3 % (10 % at 57 W)
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	31 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1/11/13 TCD EXCEL one4all	22176455 ^①
PCA 1/18 TCD EXCEL one4all	22084709
PCA 1/26 TCD EXCEL one4all	22084686
PCA 1/32 TCT EXCEL one4all	22088622
PCA 1/42 TCT EXCEL one4all	22176463 ^①
PCA 1/57 TCT EXCEL one4all	22086941
For luminaires with 2 lamps	
PCA 2/11-13 TCD EXCEL one4all	22176457 ^①
PCA 2/18 TCD EXCEL one4all	22084692
PCA 2/26 TCD EXCEL one4all	22084670
PCA 2/32 TCT EXCEL one4all	22088638
PCA 2/42 TCT EXCEL one4all	22176465 ^①

Packaging: 10 pieces/carton, 500 pieces/pallet

① Available: September 2010

Specific technical data

Lamp wattage	Lamp type	Type	Dimensions LxWxH	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^②	Current at 230 V / 50 Hz ^②	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^②
For luminaires with 1 lamp											
1 x 13 W	TC-DEL	PCA 1/11/13 TCD EXCEL one4all	123 x 79 x 31 mm	66.5 mm	0.22 kg	16.5 W	12.7 W	0.076 A	0.95	70 °C	-15 ... 60 °C
1 x 11 W	TC-SEL	PCA 1/11/13 TCD EXCEL one4all	123 x 79 x 31 mm	66.5 mm	0.22 kg	15.5 W	11.4 W	0.072 A	0.95	70 °C	-15 ... 60 °C
1 x 18 W	TC-DEL	PCA 1/18 TCD EXCEL one4all	123 x 79 x 31 mm	66.5 mm	0.22 kg	20.5 W	16.0 W	0.100 A	0.96	75 °C	-25 ... 60 °C
1 x 18 W	TC-TEL	PCA 1/18 TCD EXCEL one4all	123 x 79 x 31 mm	66.5 mm	0.22 kg	20.5 W	16.0 W	0.100 A	0.96	75 °C	-25 ... 60 °C
1 x 26 W	TC-DEL	PCA 1/26 TCD EXCEL one4all	123 x 79 x 31 mm	66.5 mm	0.22 kg	27.5 W	23.0 W	0.130 A	0.97	85 °C	-25 ... 60 °C
1 x 26 W	TC-TEL	PCA 1/26 TCD EXCEL one4all	123 x 79 x 31 mm	66.5 mm	0.22 kg	27.5 W	23.0 W	0.130 A	0.97	85 °C	-25 ... 60 °C
1 x 32 W	TC-TEL	PCA 1/32 TCT EXCEL one4all	123 x 79 x 31 mm	66.5 mm	0.22 kg	36.2 W	30.0 W	0.160 A	0.95	80 °C	-25 ... 60 °C
1 x 42 W	TC-TEL	PCA 1/42 TCT EXCEL one4all	123 x 79 x 31 mm	66.5 mm	0.22 kg	47.0 W	41.0 W	0.210 A	0.97	70 °C	-25 ... 60 °C
1 x 57 W	TC-TEL	PCA 1/57 TCT EXCEL one4all	123 x 79 x 31 mm	66.5 mm	0.22 kg	66.0 W	57.0 W	0.290 A	0.99	85 °C	-25 ... 50 °C
For luminaires with 2 lamps											
2 x 13 W	TC-DEL	PCA 2/11-13 TCD EXCEL one4all	123 x 102 x 31 mm	89.5 mm	0.25 kg	31.0 W	24.0 W	0.140 A	0.96	70 °C	-15 ... 60 °C
2 x 11 W	TC-SEL	PCA 2/11-13 TCD EXCEL one4all	123 x 102 x 31 mm	89.5 mm	0.25 kg	29.5 W	22.5 W	0.132 A	0.96	70 °C	-15 ... 60 °C
2 x 18 W	TC-DEL	PCA 2/18 TCD EXCEL one4all	123 x 102 x 31 mm	89.5 mm	0.25 kg	40.0 W	32.0 W	0.180 A	0.98	85 °C	-25 ... 60 °C
2 x 18 W	TC-TEL	PCA 2/18 TCD EXCEL one4all	123 x 102 x 31 mm	89.5 mm	0.25 kg	40.0 W	32.0 W	0.180 A	0.98	85 °C	-25 ... 60 °C
2 x 26 W	TC-DEL	PCA 2/26 TCD EXCEL one4all	123 x 102 x 31 mm	89.5 mm	0.25 kg	55.0 W	45.0 W	0.250 A	0.99	80 °C	-25 ... 50 °C
2 x 26 W	TC-TEL	PCA 2/26 TCD EXCEL one4all	123 x 102 x 31 mm	89.5 mm	0.25 kg	55.0 W	45.0 W	0.250 A	0.99	80 °C	-25 ... 50 °C
2 x 32 W	TC-TEL	PCA 2/32 TCT EXCEL one4all	123 x 102 x 31 mm	89.5 mm	0.25 kg	70.7 W	61.0 W	0.310 A	0.97	80 °C	-25 ... 50 °C
2 x 42 W	TC-TEL	PCA 2/42 TCT EXCEL one4all	123 x 102 x 31 mm	89.5 mm	0.25 kg	91.0 W	81.0 W	0.400 A	0.98	70 °C	-25 ... 50 °C

① Valid at 100 % dimming level

② 3 % (10 % at 57 W) dimming from 0 °C to ta max.



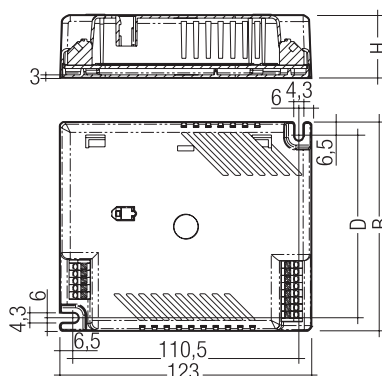
Compact and T5c fluorescent lamps

- Noise-free precise control via DSI signal, switchDIM, corridorFUNCTION or DALI
- DALI-MEMORY
- Extended DALI commands
- CELMA energy class A1

- DALI
- DSI
- switchDIM (with memory function)
- corridorFUNCTION (individually programmable)
- Integrated SMART-Interface

- Optimum filament heating in any dimmer setting
- Fade rates between 50 ms and 90 s (min-max.)
- Automatically triggered emergency lighting value in DC mode, can be set between 1 and 70 %
- For emergency lighting systems as per EN 50172
- Automatic start after replacement of defective lamps

→ For product data sheet go to www.tridonic.com, or available on request



Power input on standby	< 1 W
Protective hot restart	1.5 s for AC / 0.6 s for DC
Dimming range	3 – 100 %
Lamp start possible from	3 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	31 mm

Type	Article number
For luminaires with 1 lamp	
PCA 1/55 TC-DD EXCEL one4all	22086636
Packaging: 10 pieces/carton, 500 pieces/pallet	

Lamp wattage	Lamp type	Type	Dimensions LxWxH	Hole spacing D	Weight	Circuit power ^①	Lamp wattage ^①	Current at 230 V / 50 Hz ^②	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^③
For luminaires with 1 lamp											
1 x 55 W	TC-DD	PCA 1/55 TC-DD EXCEL one4all	123 x 102 x 31 mm	89,5 mm	0.22 kg	59.6 W	55 W	0.26 A	0.98	85 °C	-25 ... 50 °C

② 3 % dimming from +10 °C to ta max.



PCA T5c EXCEL one4all, 22 – 55 W

Compact and T5c fluorescent lamps

Product description

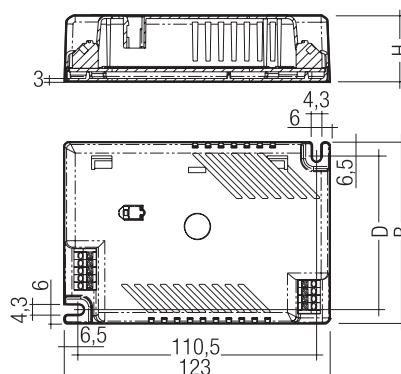
- Noise-free precise control via DSI signal, switchDIM, corridorFUNCTION or DALI
- DALI-MEMORY
- Extended DALI commands
- CELMA energy class A1

Interfaces

- DALI
- DSI
- switchDIM (with memory function)
- corridorFUNCTION (individually programmable)
- Integrated SMART-Interface

Functions

- Automatically triggered emergency lighting value in DC mode, can be set between 1 and 70 %
 - For emergency lighting systems as per EN 50172
 - Automatic start after replacement of defective lamps
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Power input on standby	< 1 W
Protective hot restart	1.5 s for AC / 0.6 s for DC
Dimming range	3 – 100 %
Lamp start possible from	3 %
Operating frequency	~40 – 100 kHz
Life	50,000 h
Height	31 mm

Ordering data

Type	Article number
For luminaires with 1 lamp	
PCA 1/22 T5c EXCEL one4all	22086881
PCA 1/40 T5c EXCEL one4all	22086904
PCA 1/55 T5c EXCEL one4all	22176467 ^①

Packaging: 10 pieces/carton, 500 pieces/pallet

^① Available: September 2010

Specific technical data

Lamp wattage	Lamp type	Type	Dimensions LxWxH	Hole spacing D	Weight	Circuit power ^②	Lamp wattage ^③	Current at 230 V / 50 Hz ^③	λ at 50 Hz / 230 V	tc point	Ambient temperature ta ^③
For luminaires with 1 lamp											
1 x 22 W	T5c	PCA 1/22 T5c EXCEL one4all	123 x 79 x 31 mm	66.5 mm	0.22 kg	26.1 W	22 W	0.12 A	0.96	70 °C	10 ... 60 °C
1 x 40 W	T5c	PCA 1/40 T5c EXCEL one4all	123 x 79 x 31 mm	66.5 mm	0.22 kg	45.5 W	40 W	0.20 A	0.98	65 °C	10 ... 50 °C
1 x 55 W	T5c	PCA 1/55 T5c EXCEL one4all ^①	123 x 79 x 31 mm	66.5 mm	0.22 kg	61.0 W	55 W	0.24 A	0.98	75 °C	10 ... 50 °C

^① ÖVE, EN 61347-2-3, not suitable for emergency lighting units according to EN 50172

^② Valid at 100 % dimming level

^③ 3 % dimming from +10 °C to ta max.

RoHS

Smart-LS II / Smart-LS II Ip

Light sensor for constant light control

Product description

- Daylight sensor, can be integrated in PCA EXCEL one4all and PCA ECO
- Constant lighting control for 1 ECG

Interfaces

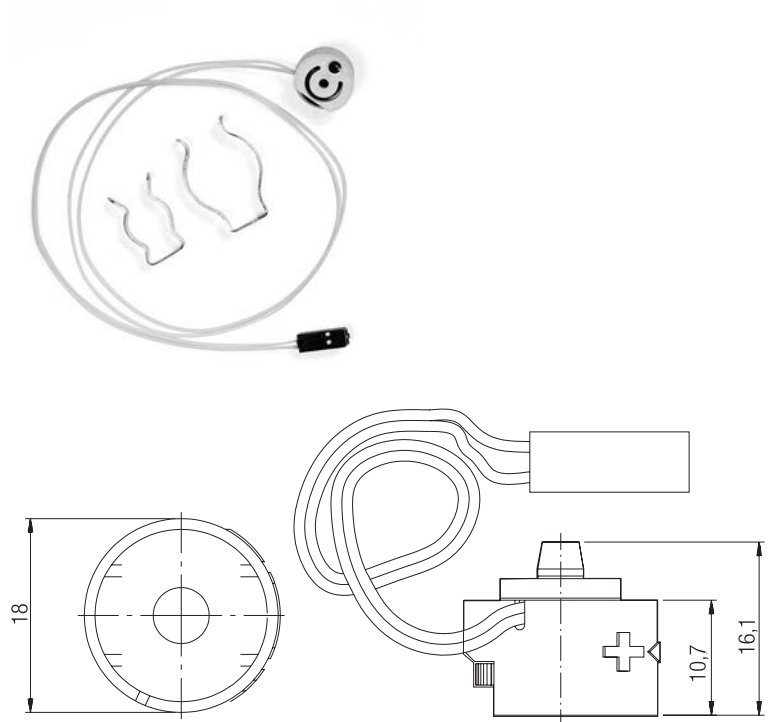
- Connection to SMART-Interface

Functions

- Energy savings of up to 30%
 - Detection range 60°
 - Temporary adjustment of the setpoint in the DALI and switchDIM mode is possible
 - Constant light value adjustable
 - Combination with DSI-A/D possibly, thereby up to 50 ECG adjustably
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Control output PCA EXCEL / ECO	1
Max. cable length	50 cm



Ordering data

Suitable for	Type	Article number
PCA EXCEL one4all / PCA ECO	Smart-LS II	86448347
PCA EXCEL one4all Ip / PCA ECO Ip	Smart-LS II Ip	86458258

Packaging: 10 pieces/carton



Wiring diagrams and installation examples, page 136

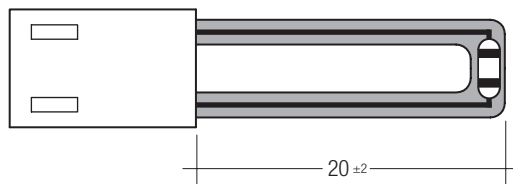
Product matrix, page 379



corridorFUNCTION Plugs

Product description

- Accessories for electronic ballasts PCA ECO Ip xitec, PCA EXCEL one4all Ip xitec
 - Enables simple profile setting for the corridorFUNCTION (see colour code)
 - Quick and simple installation possible (check installation instructions)
 - No additional software required
- For product data sheet go to www.tridonic.com, or available on request



Ordering data

Type	Article number
corridorFUNCTION plug Ip n.o. purple	24166233
corridorFUNCTION plug Ip 1min yellow	24166117
corridorFUNCTION plug Ip 30min orange	24166118

Packaging: 20 pieces/bag, 600 pieces/carton

Specific technical data

Type	Colour	Labelling	corridorFUNCTION profile
corridorFUNCTION plug Ip n.o. ^①	violet	cF n.o.	never off
corridorFUNCTION plug Ip 1min	yellow	cF 1Min	switch-off 1 minute
corridorFUNCTION plug Ip 30min ^①	orange	cF 30Min	switch-off 30 minutes

^① For devices with xitec processors only.



corridorFUNCTION
Plugs

Product description

- Accessories for electronic ballasts PCA ECO, PCA EXCEL one4all
 - Enables simple profile setting for the corridorFUNCTION
 - Quick and simple installation possible (check installation instructions)
 - No additional software required
- For product data sheet go to www.tridonic.com, or available on request



Product matrix, page 86
Wiring diagrams and installation examples, page 136



Ordering data

Type	Article number
corridorFUNCTION plug black	86458380
Packaging: 10 pieces/bag, 250 pieces/carton	

Specific technical data

Type	Colour	Labelling	corridorFUNCTION profile
corridorFUNCTION plug	black	none	switch-off 1 minute



plugADDRESSING Plugs

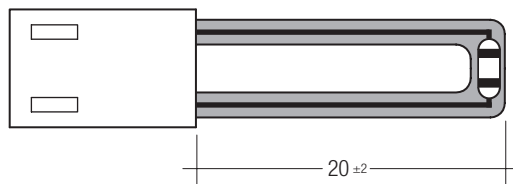
Product description

- Accessories for electronic ballasts PCA EXCEL one4all Ip xtec
 - Enables simple DALI group addressing (see colour code)
 - Quick and simple installation possible
(check installation instructions)
 - No additional software required
- For product data sheet go to www.tridonic.com,
or available on request



Product matrix, page 86

Wiring diagrams and installation examples, page 136



Ordering data

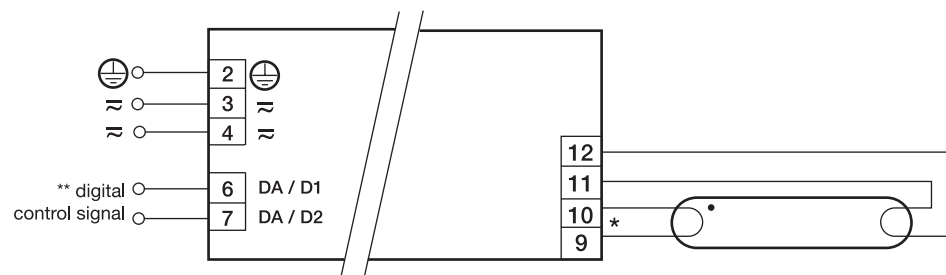
Type	Article number
plugADDRESSING plug Ip G1 red	24166113
plugADDRESSING plug Ip G2 green	24166114
plugADDRESSING plug Ip G3 blue	24166115
plugADDRESSING plug Ip G4 white	24166116

Packaging: 20 pieces/bag, 600 pieces/carton

Specific technical data

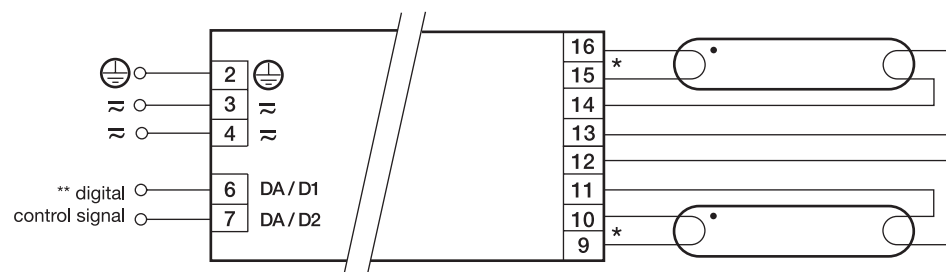
Type	Colour	Labelling	DALI group
plugADDRESSING plug Ip G1	red	G1	1
plugADDRESSING plug Ip G2	green	G2	2
plugADDRESSING plug Ip G3	blue	G3	3
plugADDRESSING plug Ip G4	white	G4	4

PCA ECO/PCA EXCEL one4all with 1 lamp



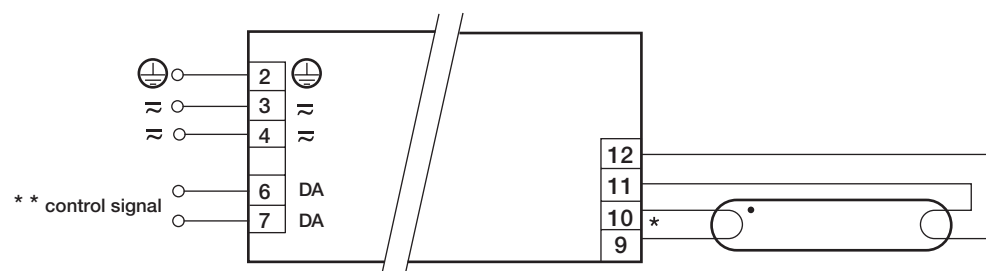
- * leads 9, 10 keep wires short, max. 1.0 m
leads 11, 12 max. 2.0 m; ballast must be earthed
- ** DSI or DALI with EXCEL one4all
DSI with ECO

PCA ECO/PCA EXCEL one4all with 2 lamps



- * leads 9, 10, 15, 16 keep wires short, max. 1.0 m
leads 11, 12, 13, 14 max. 2.0 m; ballast must be earthed
- ** DSI or DALI with EXCEL one4all
DSI with ECO

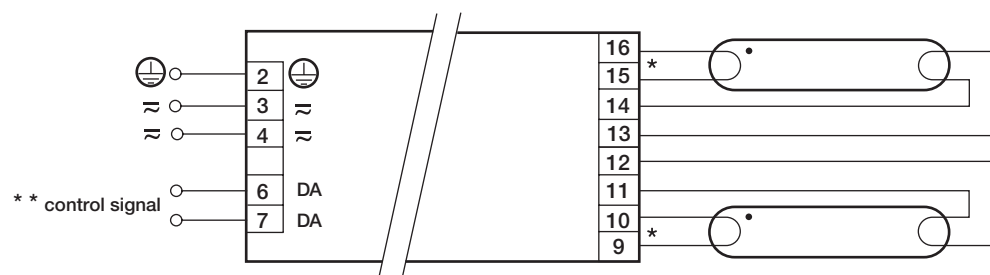
PCA EXCITE with 1 lamp



- * leads 9, 10: keep wires short, max. 1.0 m
leads 11, 12: max. 2.0 m; ballast must be earthed
- ** digital signal DALI or switchDIM

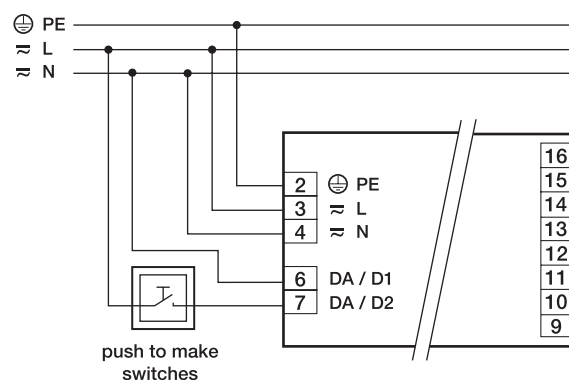
Please note: dimmable ballasts from Tridonic must be earthed.

PCA EXCITE with 2 lamps

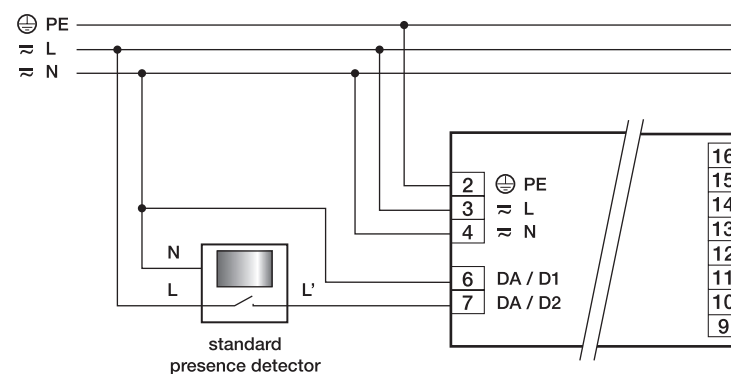


- * leads 9, 10, 15, 16: keep wires short, max. 1.0 m
- leads 11, 12, 13, 14: max. 2.0 m; ballast must be earthed
- ** digital signal DALI or switchDIM

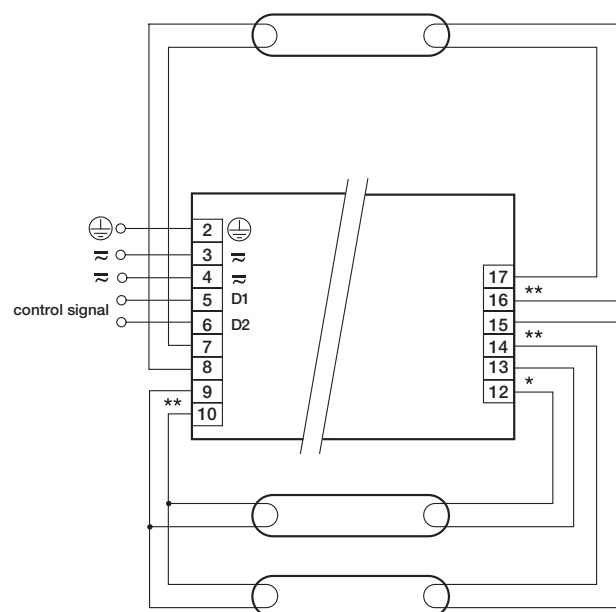
switchDIM PCA ECO/PCA EXCEL one4all



corridorFUNCTION PCA EXCEL one4all (PCA T5 ECO Ip)

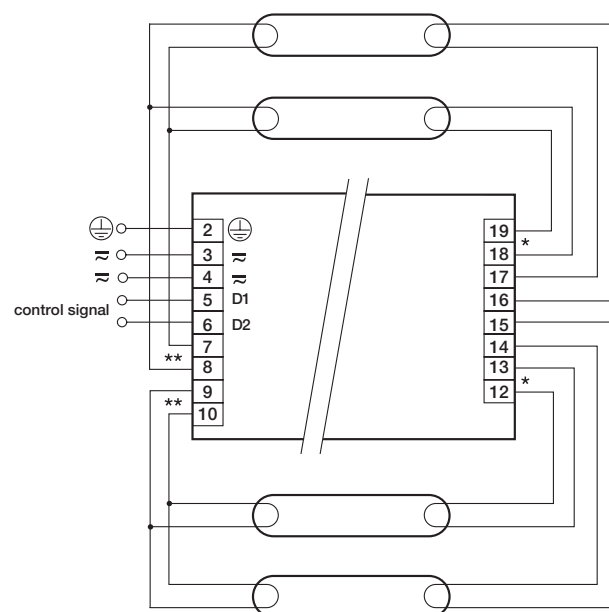


PCA 3x14, 3x18 ECO Ip xitec



- * leads 12, 13: keep wires short, max. 1.0 m
- ** leads 9, 10, 14, 15, 16, 17: keep wires short, max. 0.5 m
- leads 7, 8: max. 2.0 m

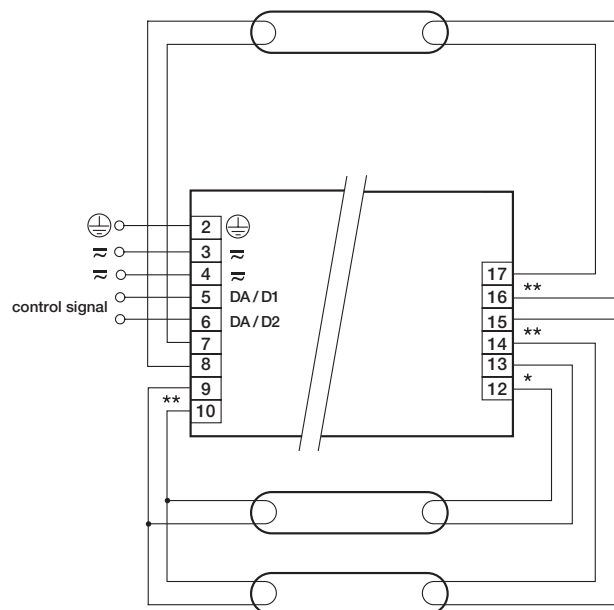
PCA 4x14, 4x18 ECO Ip xitec



- * leads 12, 13, 18, 19: keep wires short, max. 1.0 m
- ** leads 7, 8, 9, 10: keep wires short, max. 0.5 m
- leads 14, 15, 16, 17: max. 2.0 m

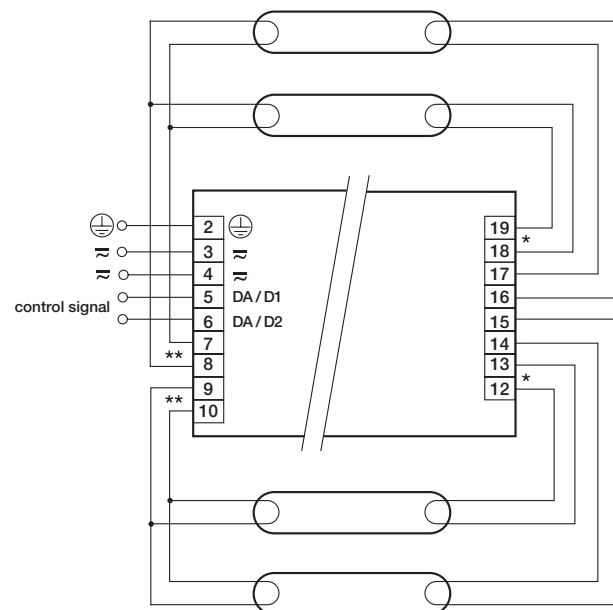
Please note: dimmable ballasts from Tridonic must be earthed.

PCA 3x14, 3x18 EXCEL Ip xtec



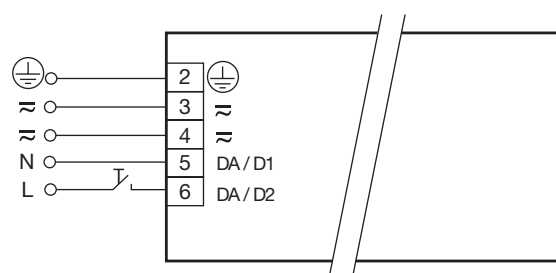
- * leads 12, 13: keep wires short, max. 1.0 m
- ** leads 9, 10, 14, 15, 16, 17: keep wires short, max. 0.5 m
- leads 7, 8: max. 2.0 m

PCA 4x14, 4x18 EXCEL Ip xtec

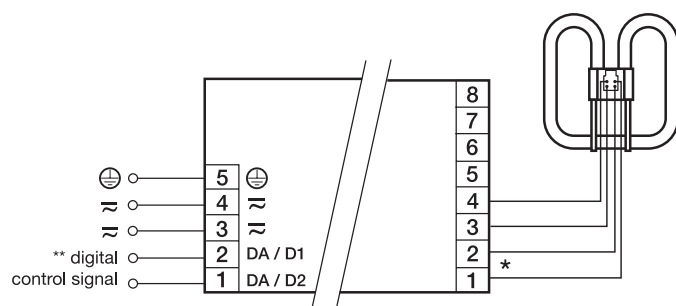


- * leads 12, 13, 18, 19: keep wires short, max. 1.0 m
- ** leads 7, 8, 9, 10: keep wires short, max. 0.5 m
- leads 14, 15, 16, 17: max. 2.0 m

switchDIM PCA ECO/EXCEL one4all 3x14, 3x18, 4x14, 4x18

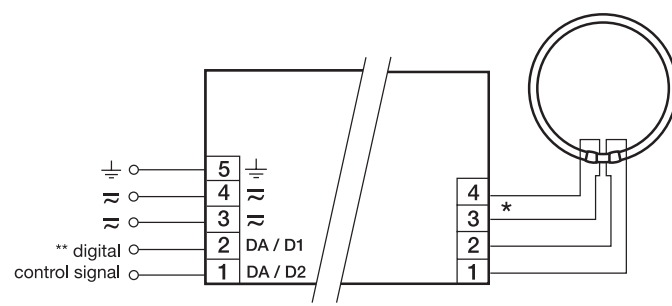


PCA TC-DD ECO/PCA TC-DD EXCEL one4all



- * leads 1, 2 keep wires short, max. 1.0 m
- leads 3, 4 max. 2.0 m; ballast must be earthed
- ** DSI or DALI with EXCEL one4all
- DSI with ECO

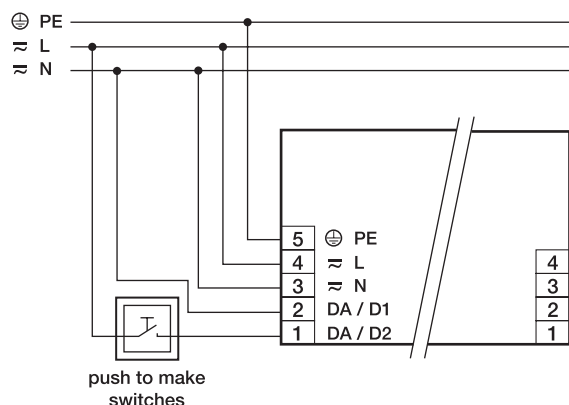
PCA T5c ECO/PCA T5c EXCEL one4all



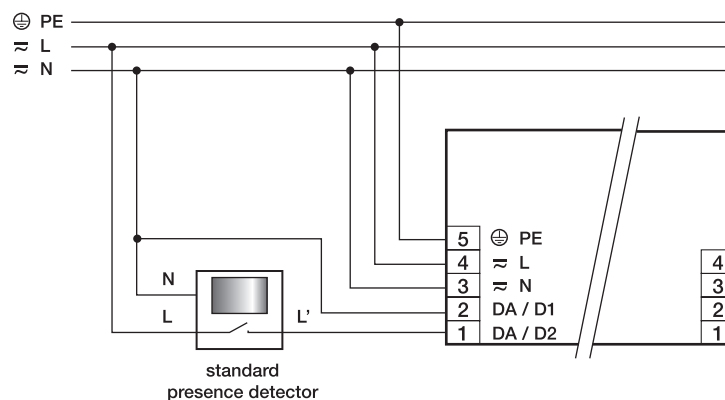
- * leads 3, 4 keep wires short, max. 1.0 m
- leads 1, 2 max. 2.0 m; ballast must be earthed
- ** DSI or DALI with EXCEL one4all
- DSI with ECO

Please note: dimmable ballasts from Tridonic must be earthed.

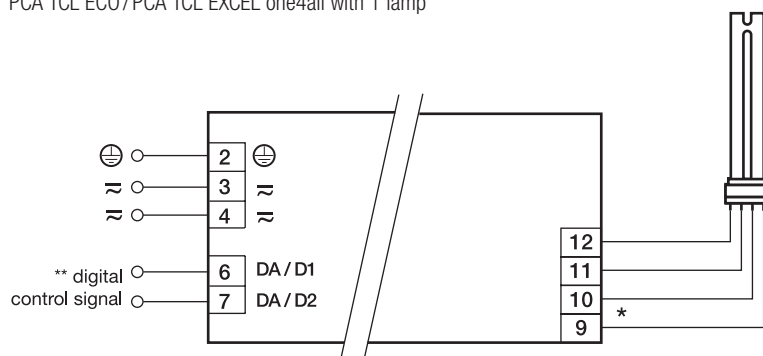
switchDIM PCA ECO/PCA EXCEL one4all



corridorFUNCTION PCA EXCEL one4all

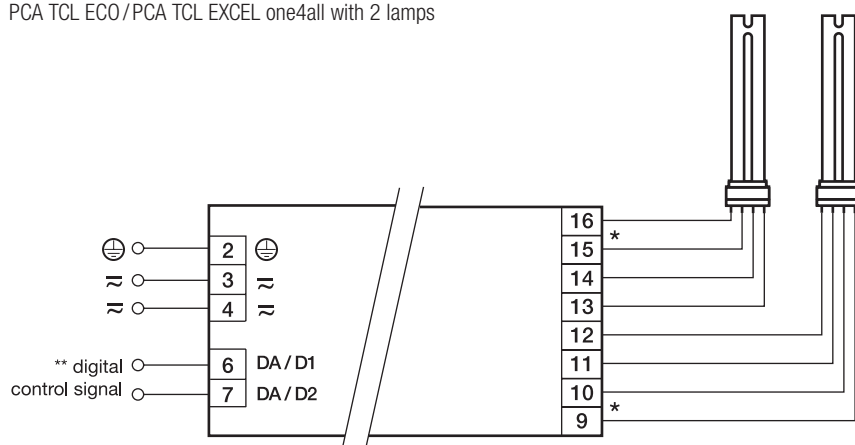


PCA TCL ECO/PCA TCL EXCEL one4all with 1 lamp



- * leads 9, 10 keep wires short, max. 1.0 m
leads 11, 12 max. 2.0 m; ballast must be earthed
- ** DSI or DALI with EXCEL one4all
DSI with ECO

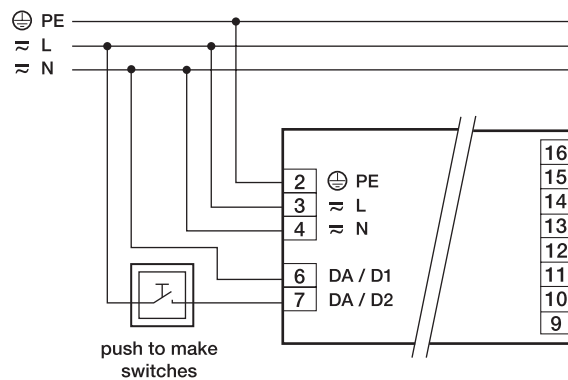
PCA TCL ECO/PCA TCL EXCEL one4all with 2 lamps



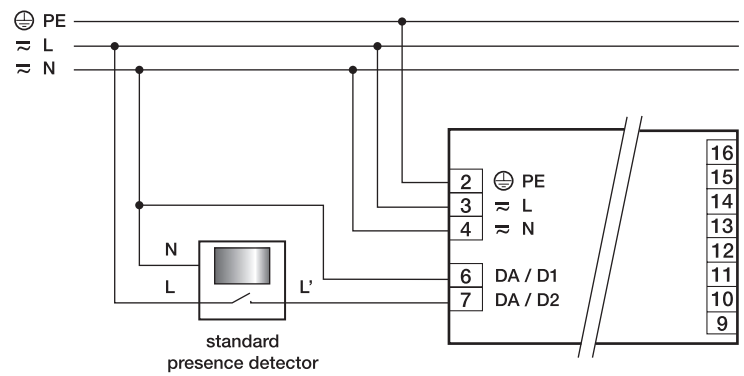
- * leads 9, 10, 15, 16 keep wires short, max. 1.0 m
leads 11, 12, 13, 14 max. 2.0 m; ballast must be earthed
- ** DSI or DALI with EXCEL one4all
DSI with ECO

Please note: dimmable ballasts from Tridonic must be earthed.

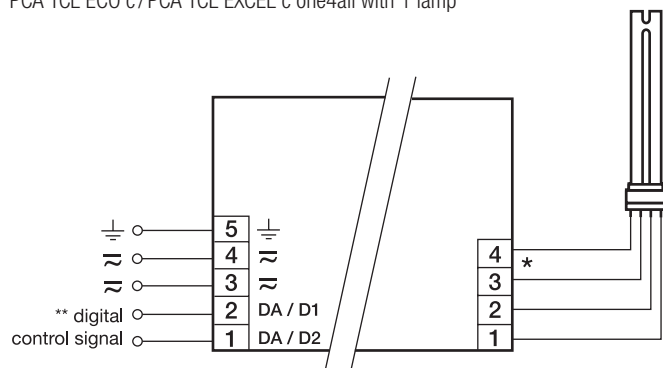
switchDIM PCA TCL ECO / PCA TCL EXCEL one4all



corridorFUNCTION PCA TCL EXCEL one4all

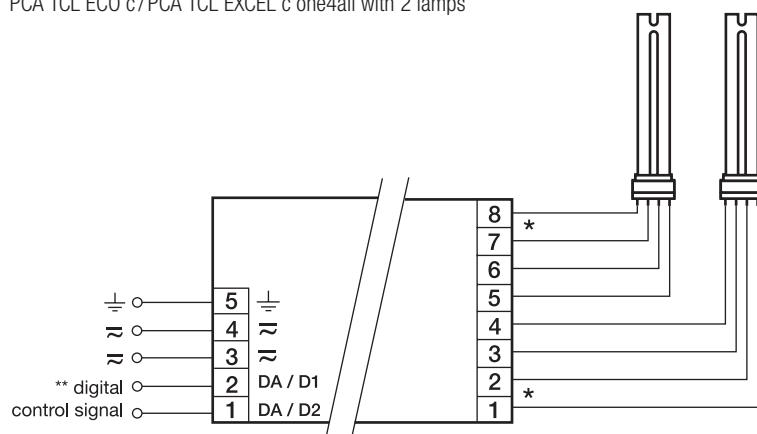


PCA TCL ECO c / PCA TCL EXCEL c one4all with 1 lamp



- * leads 3, 4 keep wires short, max. 1.0 m
leads 1, 2 max. 2.0 m; ballast must be earthed
- ** DSI or DALI with EXCEL one4all
DSI with ECO

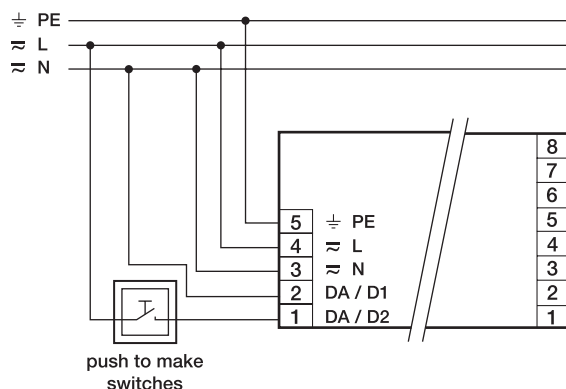
PCA TCL ECO c / PCA TCL EXCEL c one4all with 2 lamps



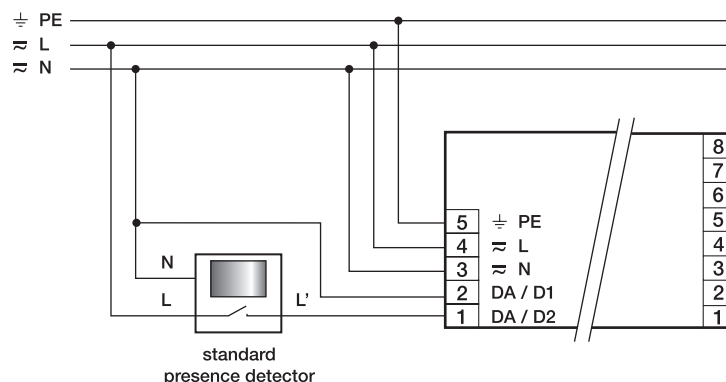
- * leads 1, 2, 7, 8 keep wires short, max. 1.0 m
leads 3, 4, 5, 6 max. 2.0 m; ballast must be earthed
- ** DSI or DALI with EXCEL one4all
DSI with ECO

Please note: dimmable ballasts from Tridonic must be earthed.

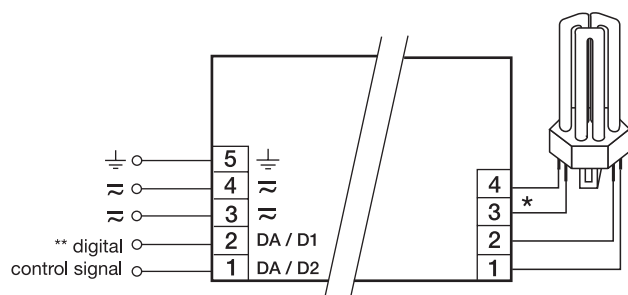
switchDIM PCA TCL ECO c/PCA TCL EXCEL c one4all



corridorFUNCTION PCA TCL EXCEL c one4all

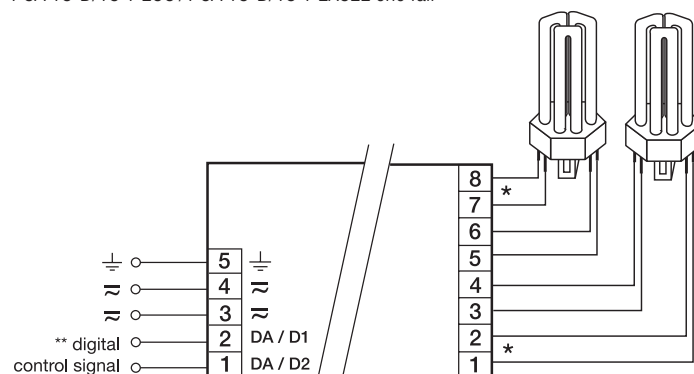


PCA TC-D/TC-T ECO/PCA TC-D/TC-T EXCEL one4all



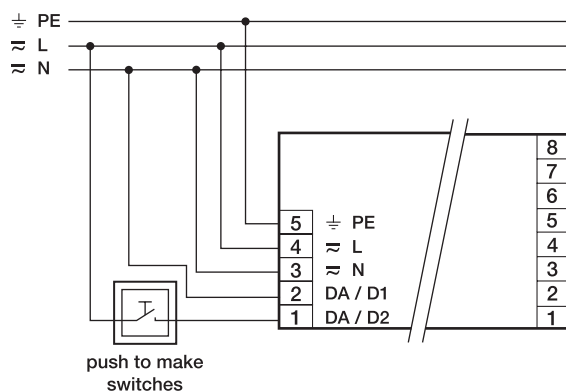
* leads 3, 4 keep wires short, max. 1.0 m
leads 1, 2 max. 2.0 m; ballast must be earthed
** DSI or DALI with EXCEL one4all
DSI with ECO

PCA TC-D/TC-T ECO/PCA TC-D/TC-T EXCEL one4all

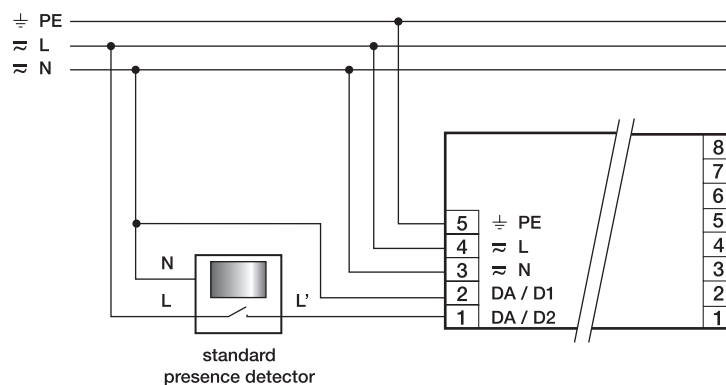


* leads 1, 2, 7, 8 keep wires short, max. 1.0 m
leads 3, 4, 5, 6 max. 2.0 m; ballast must be earthed
** DSI or DALI with EXCEL one4all
DSI with ECO

switchDIM PCA TC-D/TC-T ECO/PCA TC-D/TC-T EXCEL one4all

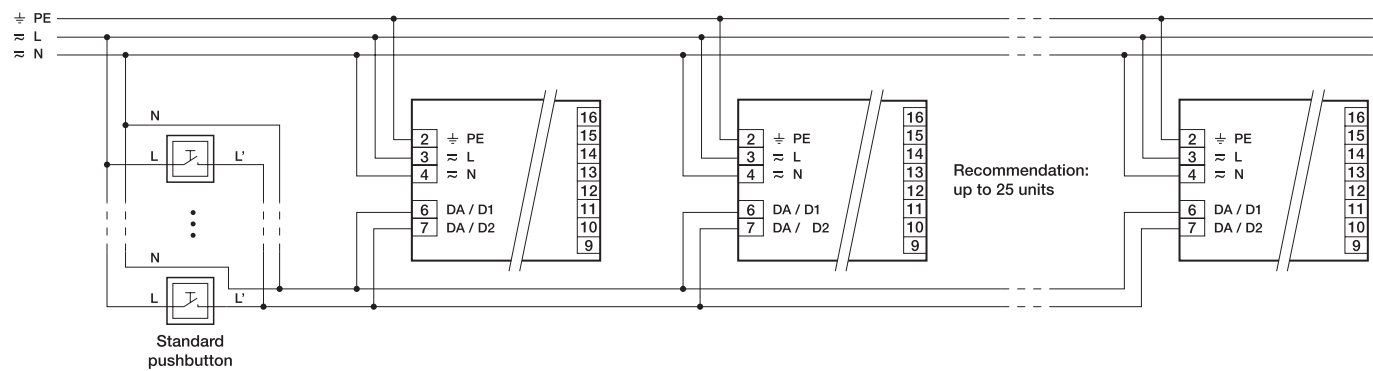


corridorFUNCTION PCA TC-D/TC-T EXCEL one4all



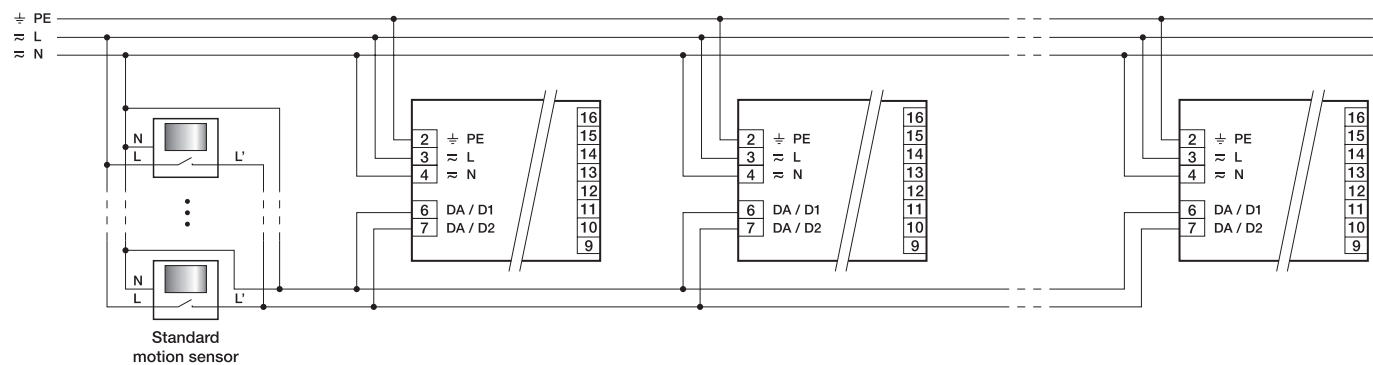
Please note: dimmable ballasts from Tridonic must be earthed.

switchDIM installation examples



Maximum number of units: up to 25 PCAs recommended, no limit on number of switches

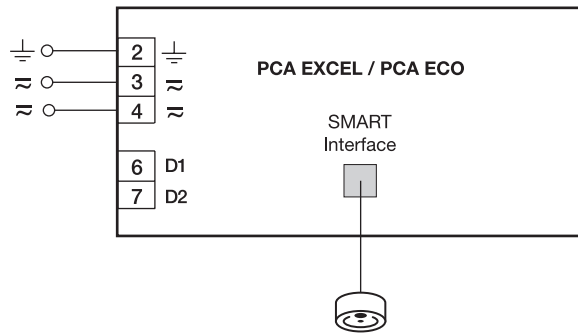
corridorFUNCTION installation examples



Maximum number of units: no limit on the number of luminaires or motion sensors (maximum number of PCAs limited to 95 for individual programming via software)

Please note: dimmable ballasts from Tridonic must be earthed.

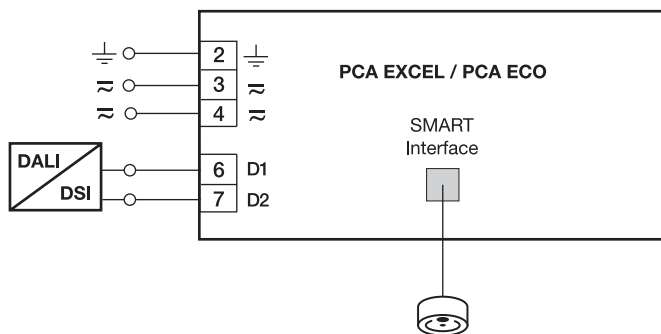
Smart-LS II/Smart-LS II Ip – constant lighting control (standard)



ON/OFF switching directly via mains voltage. PCA EXCEL/PCA ECO provide soft starting followed by automatic regulation to the constant light value selected on the sensor.

Description	Article number	No. ballasts PCA EXCEL/ECO	Max. lead length cm	Suitable for
Smart-LS II	86448347	1	50	PCA EXCEL/PCA ECO
Smart-LS II Ip	86458258	1	50	PCA EXCEL Ip/PCA ECO Ip

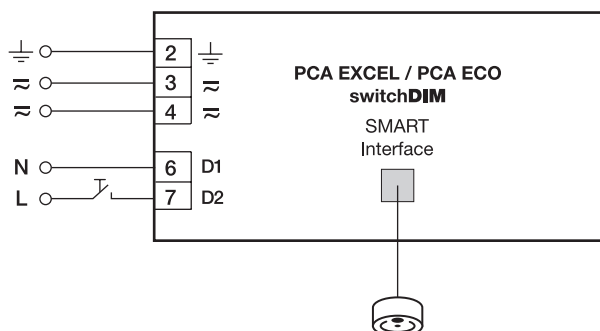
Smart-LS II/Smart-LS II Ip – constant lighting control (DSI/DALI)



ON/OFF switching via digital DSI signal. DSI signal=0 switches OFF powerless, DSI signals ≥ 1 switch ON. Luminaires regulated by Smart-LS and Smart-LS II Ip can therefore be integrated in DSI-controlled systems (dimming commands are not performed). Powerless ON/OFF switching via digital DALI signal. The lighting control value can be changed centrally via different DALI commands. Luminaires regulated by Smart-LS and Smart-LS II Ip can therefore be integrated in DALI-controlled systems..

Description	Article number	No. ballasts PCA EXCEL/ECO	Max. lead length cm	Suitable for
Smart-LS II	86448347	1	50	PCA EXCEL/PCA ECO
Smart-LS II Ip	86458258	1	50	PCA EXCEL Ip/PCA ECO Ip

Smart-LS II/Smart-LS II Ip – constant lighting control (switchDIM)



PCA EXCEL and PCA ECO with switchDIM function and Smart-LS can be switched ON/OFF by pressing the switch briefly. Holding down the switch fades UP/DOWN and moves the setpoint value used by Smart-LS. After OFF/ON the value originally set on Smart-LS is active again.

Description	Article number	No. ballasts PCA EXCEL/ECO	Max. lead length cm	Suitable for
Smart-LS II	86448347	1	50	PCA EXCEL/PCA ECO
Smart-LS II Ip	86458258	1	50	PCA EXCEL Ip/PCA ECO Ip

Overview Page 149

Product overview Page 149

Product matrix Page 150

Lamp matrix – High-pressure mercury lamps Page 152

Lamp matrix – High-pressure sodium lamps Page 153

Lamp matrix – Metal halide lamps Page 159

Product information Page 166

Magnetic chokes for high-intensity discharge lamps Page 166

Supply units for high-intensity discharge lamps Page 168

OM-PRO

Suitable for lamp type

High-pressure mercury and metal halide lamps

OMB 50 – 400 W

Page 169

HM	HI	HS
•	•	

High-pressure sodium and metal halide lamps

OMBIS 35 – 250 W + OMBS 50 – 150 W

Page 170

OMBIS 35 – 250 W + OMBS 70 W

Page 172

	•	•
	•	•

OM Vario 6-point

High-pressure mercury and metal halide lamps

OMB 50 – 400 W

Page 173

High-pressure sodium and metal halide lamps

OMBIS 35 – 250 W + OMBS 50 – 150 W

Page 174

•	•	
	•	•

OM Vario 4-point

High-pressure mercury and metal halide lamps

OMB 50 – 400 W

Page 176

High-pressure sodium and metal halide lamps

OMBIS 35 – 250 W + OMBS 50 – 150 W

Page 177

•	•	
	•	•

Chokes for SON SDW-T for ignitor CSLS (Philips)

OMB 35 – 100 W 220 – 250 V 50 Hz

Page 179

		•

OF 4-point

High-pressure mercury and metal halide lamps

OFB 250 – 400 W

Page 180

High-pressure sodium and metal halide lamps

OFBIS 250 W + OFBS 400 W

Page 181

•	•	
	•	•

OF 6-point

High-pressure mercury and metal halide lamps

OFB 250 – 400 W

Page 182

High-pressure sodium and metal halide lamps

OFBIS 250 W + OFBS 400 W

Page 183

•	•	
	•	•





		Suitable for lamp type		
		HM	HI	HS
OG Standard				
High-pressure mercury and metal halide lamps	OGL 250 – 1,000 W	•	•	
		Page 185		
High-pressure sodium and metal halide lamps	OGLIS 250 – 2,000 W + OGLS 400 – 600 W		•	•
		Page 186		
	OGLI 2,000 W		•	•
		Page 188		
OG Vario				
High-pressure mercury and metal halide lamps	OGL 400 W	•	•	
		Page 189		
High-pressure sodium and metal halide lamps	OGLS 250 – 600 W + OGLIS 250 W		•	•
		Page 190		
EC HID				
High-pressure mercury and metal halide lamps	ECM 50 – 80	•	•	
		Page 191		
High-pressure sodium and metal halide lamps	ECIS 35 – 150		•	•
		Page 192		
Blocking inductors				
Series EC				
	ECF 8 – 32 (standard)	•	•	•
		Page 193		
	ECF 8 – 60 (with double insulation)	•	•	•
		Page 194		
Series OM				
	OMF 37 – 60	•	•	•
		Page 195		
OM PAK supply units				
Standard version				
	OM PAK 35 – 150 W		•	•
		Page 196		
Standard version with lamp cable				
	OM PAK 35 – 150 W		•	•
		Page 197		
with timer				
	OM PAK 35 – 150 W		•	•
		Page 198		
with timer and cable				
	OM PAK 35 – 150 W		•	•
		Page 199		
powerPULSE				
	OM PAK 70 – 150 W		•	•
		Page 200		

Wiring diagrams and installation examples (see ignitors) Page 229

Product type overview



EC

Series: ECM, ECIS

Magnetic chokes for HID

- Max. winding temperature $t_w = 130^\circ\text{C}$
- Compact cross-section (41 x 31 mm)
- Core lengths from 90 to 160 mm
- Can be used for wattages up to 150 W



OM

Series: OMB, OMBIS, OMBS

Magnetic chokes for HID

- Max. winding temperature $t_w = 130^\circ\text{C}$
- Cross-section 65 x 47 mm
- Core lengths from 30 to 150 mm
- Can be used for wattages between 35 and 400 W



OF

Series: OFB, OFBIS, OFBS

Magnetic chokes for HID

- Max. winding temperature $t_w = 130^\circ\text{C}$
- Cross-section 82 x 57 mm
- Core lengths from 40 to 90 mm
- Can be used for wattages between 250 and 400 W



OG

Series: OGL, OGLI, OGLIS

Magnetic chokes for HID

- Max. winding temperature $t_w = 130^\circ\text{C}$
- Width 107 mm, height 78, 90 or 106 mm
- Core lengths from 30 to 210 mm
- Can be used for wattages between 250 and 3,500 W
- High efficiency and low self-heating



OM PAK

Supply units for high-pressure sodium lamps and metal halide lamps:

- Low-loss OM series choke with thermal overload protection
- Exceptionally quiet operation
- Can be used even in high temperatures
- With F label for mounting on normally flammable materials
- Simple connection in a generously sized connection compartment; no tools required
- Choice of rated voltage for 230, 240 and 250 V



ECF / OMF

ECF: Filter chokes – standard

OMF: Blocking inductors with double insulation

- Blocking frequency $> 485\text{ Hz}$

Product matrix

Series	Design	Type	Page
EC	Standard	ECM A90/ECM A140	Page 191
		ECIS C90/A140/1/2 C140	Page 192
OM	Standard	OMB A103K	Page 173
		OMB A153K	Page 176
		OMB A604K	Page 169
		OMBS A103W	Page 174
		OMBS A604W	Page 170
		OMBIS A103W	Page 174
		OMBIS A153W	Page 177
		OMBIS A604W	Page 170
	With double insulation	OMB A203B/A201B/A211B	Page 173
		OMB A251B/A253B	Page 176
		OMB C203B	—
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		OMBIS A203D/B253D/A207D	Page 174
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HID magnetic chokes

Lamp matrix – High-pressure mercury lamps

High-pressure mercury lamps, 50–1,000 W

Manufacturer	Wattage	Description	Lamp holder	Current A	ECM	ECIS	OMB	OMBS	OMBIS	OFB	OFBS	OFBIS	OGL	OGLS	OGLI	OGLIS	OMPAK
GE	50 W	H 50W ...	E27	0.62	•		•										
	80 W	H 80W ...	E27/B22	0.80	•		•										
	125 W	H 125W ...	E27/B22	1.15			•										
	250 W	H 250W ...	E40	2.15			•			•			•				
	400 W	H 400W ...	E40	3.25			•			•			•				
	700 W	H 700W ...	E40	5.40									•				
	1,000 W	H 1000W ...	E40	7.50									•				
Iwasaki	50 W	HF 50W PD	E27	0.62	•		•										
	80 W	HF 80W PD	E27	0.80	•		•										
	125 W	HF 125W PD	E27/E40	1.15			•										
	250 W	HF 250W PD	E40	2.15			•			•			•				
	400 W	HF 400W PD	E40	3.25			•			•			•				
	700 W	HF 700W PD	E40	5.40									•				
	1,000 W	HF 1000W PD	E40	7.50									•				
Osram	50 W	HQL 50W	E27	0.62	•		•										
	80 W	HQL 80W	E27	0.80	•		•										
	125 W	HQL 125W	E27	1.15			•										
	250 W	HQL 250W	E40	2.15			•			•			•				
	400 W	HQL 400W	E40	3.25			•			•			•				
	700 W	HQL 700W	E40	5.40									•				
	1,000 W	HQL 1000W	E40	7.50									•				
Philips	50 W	HPL 50W	E27	0.62	•		•										
	80 W	HPL 80W	E27	0.80	•		•										
	125 W	HPL 125W	E27/E40	1.15			•										
	250 W	HPL 250W	E40	2.15			•			•			•				
	400 W	HPL 400W	E40	3.25			•			•			•				
	700 W	HPL 700W	E40	5.40									•				
	1,000 W	HPL 1000W	E40	7.50									•				
Radium	50 W	HRL 50W	E27	0.62	•		•										
	80 W	HRL 80W	E27	0.80	•		•										
	125 W	HRL 125W	E27	1.15			•										
	250 W	WHRL 250W	E40	2.15			•			•			•				
	400 W	HRL 400W	E40	3.25			•			•			•				
	700 W	HRL 700W	E40	5.40									•				
	1,000 W	HRL 1000W	E40	7.50									•				
Sylvania	50 W	HSL 50W	E27	0.62	•		•										
	80 W	HSL 80W	E27	0.80	•		•										
	125 W	HSL 125W	E27/E40	1.15			•										
	250 W	HSL 250W	E40	2.15			•			•			•				
	400 W	HSL 400W	E40	3.25			•			•			•				
	700 W	HSL 700W	E40	5.40									•				
	1,000 W	HSL 1000W	E40	7.50									•				

Lamp matrix – High-pressure sodium lamps

High-pressure sodium lamps, 70–600 W

BLV

Wattage	Description	Lamp holder	Current A	$U_{gn} = 2.5\text{ kV}$	$U_{gn} = 5.0\text{ kV}$	$U_{gn} < 1\text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OFB	OFBS	OFBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
70 W	NAH-E 70W	E27	1.00	•				•		•									
	NAH-TR 70W	Rx7s	1.00	•	•			•		•									•
150 W	NAH-T 150W	E40	1.80		•			•			•								•
	HST-DE 150W	Fc 2	1.80		•			•			•								•
	HST-DE 150W	Rx7s	1.80		•			•			•								•
250 W	NAH-T 250W	E40	3.00		•						•		•					•	
	HST-DE 250W	Fc 2	3.00		•						•		•					•	
	HST-DE 250W	Rx7s	3.00		•						•		•					•	
400 W	NAH-T 400W	E40	4.20		•								•			•			
	HST-DE 400W	Fc 2	4.40		•								•			•			
	HST-DE 400W	Rx7s	4.40		•								•			•			
600 W	NAH-T 600W	E40	6.20		•											•			

High-pressure sodium lamps, 50–1,000 W

GE

Wattage	Description	Lamp holder	Current A	$U_{gn} = 2.5\text{ kV}$	$U_{gn} = 5.0\text{ kV}$	$U_{gn} < 1\text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OFB	OFBS	OFBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
50 W	LU 50/90W	E27	0.76	•						•									
	LU 50/90W ...I	E27	0.76	integrated						•									
70 W	LU 70W RFL	E27	1.00	integrated				•			•								
	LU 70/90W ...	E27	1.00	•				•			•								
100 W	LU 100W ...	E40/E27	1.20		•						•								
	TCF 100W	E40	1.20		•						•								
150 W	LU 115W	E40/E27	1.80		•			•			•								•
	TCF 150W	E40	1.80		•			•			•								•
250 W	LU 250W .../40	E40	3.00		•						•		•					•	
	LU 250W TD	Rx7s	3.00		•						•		•					•	
400 W	LU 400W .../40	E40	4.50		•								•			•			
	LU 400W .../TD	Rx7s	4.50		•								•			•			
600 W	LU 600W .../40	E40	6.20		•											•			
1,000 W	LU 1000W ...	E40	10.30		•													•	

Lamp matrix – High-pressure sodium lamps

High-pressure sodium lamps, 50–1,000 W

Iwasaki

Wattage	Description	Lamp holder	Current A	$U_{\text{ign}} = 2.5 \text{ kV}$	$U_{\text{ign}} = 5.0 \text{ kV}$	$U_{\text{ign}} < 1 \text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OFB	OFBS	OFBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
50 W	NH 50W F/HV/I	E27	0.76	integrated						•									
	NHT 50W I	E27	0.76	integrated						•									
	NH 50W /HV/...	E27	0.76	•						•									
70 W	NH 70W F/HV/I	E27	1.00	integrated				•			•								
	NHT 70W I	E27	1.00	integrated				•			•								
	NH 70W /HV/...	E27	1.00	•				•			•								
100 W	NH 100W F/HV/I	E40	1.20	integrated							•								
	NHT 100W I	E40	1.20	integrated							•								
	NH 100W F	E40	1.20		•						•								
	NHT 100W	E40	1.20		•						•								
150 W	NH 150W F/HV/I	E40	1.80	integrated				•			•								
	NHT 150W I	E40	1.80	integrated				•			•								
	NH 150W ... (100V/1.8A)	E40	1.80		•			•			•								•
	NHT 150W ... (100V/1.8A)	E40	1.80		•			•			•								•
250 W	NHT 250W I	E40	3.00	integrated							•			•				•	
	NHT 150W F/I	E40	3.00	integrated							•			•				•	
	NH 250W ...	E40	3.00		•						•			•				•	
	NHT 250W ...	E40	3.00		•						•			•				•	
400 W	NH 400W F/I	E40	4.45	integrated									•			•			
	NHT 400W I	E40	4.60	integrated									•			•			
	NH 400W ...	E40	4.45		•								•			•			
	NHT 400W ...	E40	4.60		•								•			•			
1,000 W	NHT 1000W I	E40	10.30	integrated														•	
	NHT 1000W F/I	E40	10.30	integrated														•	
	NH 1000W	E40	10.30		•													•	
	NHT 1000W	E40	10.30		•													•	

Lamp matrix – High-pressure sodium lamps

High-pressure sodium lamps, 50–1,000 W

Osram

Wattage	Description	Lamp holder	Current A	$U_{\text{ign}} = 2.5 \text{ kV}$	$U_{\text{ign}} = 5.0 \text{ kV}$	$U_{\text{ign}} < 1 \text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OFB	OFBS	OFBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
50 W	NAV E 50W	E27	0.76	•						•									
	NAV T 50W	E27	0.76	•						•									
70 W	NAV E 70W I	E27	1.00	integrated				•			•								
	NAV E 70W ...	E27	1.00	•				•			•								
	NAV T 70W ...	E27	1.00	•				•			•								
	NAV TS 70W ...	Rx7s	1.00	•	•			•			•								•
	NAV-TS 70W Super 4y	Rx7s	1.00	•	•			•			•								•
100 W	NAV E 100W	E40	1.20		•						•								
	NAV T 100W	E40	1.20		•						•								
150 W	NAV E 150W	E40	1.80		•			•			•								•
	NAV T 150W	E40	1.80		•			•			•								•
	NAV TS 150W ...	Rx7s	1.80		•			•			•								•
250 W	NAV E 250W ...	E40	3.00		•						•			•				•	
	NAV T 250W ...	E40	3.00		•						•			•				•	
	NAV TS 250W ...	Fc 2	3.00		•						•			•				•	
400 W	NAV E 400W ...	E40	4.45		•								•			•			
	NAV T 400W ...	E40	4.40		•								•			•			
	NAV TS 400W ...	Fc 2	4.40		•								•			•			
600 W	NAV-T 600W	E40	6.20		•											•			
1,000 W	NAV E 1000W	E40	10.30		•													•	
	NAV T 1000W	E40	10.30		•													•	

HID magnetic chokes

Lamp matrix – High-pressure sodium lamps

High-pressure sodium lamps, 35 – 1,000 W

Philips

Wattage	Description	Lamp holder	Current A	U _{ign} = 2.5 kV	U _{ign} = 5.0 kV	U _{ign} < 1 kV	ECM	ECIS	OMB	OMBS	OMBIS	OFB	OFBS	OFBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
35 W	SDW-T 35W	PG12-1	0.48	integrated					•										
50 W	SDW-T 50W	PG12-1	0.78	integrated					•										
	SON 50W I	E27	0.76	integrated						•									
	SON 50W E	E27	0.76	•						•									
	SON-T...50W	E27	0.76	•						•									
70 W	SON 70W I	E27	1.00	integrated				•			•								
	SON 70W ...	E27	1.00	•				•			•								
	SON 70W E	E27	0.98	•				•			•								
	SON-T plus 70W ...	E27	1.00	•				•			•								
	SON-T Hg free 70W ...	E27	0.98	•				•			•								
	SON Hg free 70W ...	E27	0.98	•				•			•								
	SON-T 70W ...	E27	1.00	•				•			•								
100 W	SDW-T 100W	PG12-1	1.35	integrated					•										
	SON...100W	E40	1.20		•						•								
	SON-T...100W	E40	1.20		•						•								
	SON plus 100W	E40	1.20		•						•								
	SON-T plus 100W	E40	1.20		•						•								
	SON-T Hg free 100W	E40	1.24		•						•								
150 W	SON...150W	E40	1.80		•			•			•								•
	SON-T...150W	E40	1.80		•			•			•								•
	SON 150W E	E40	1.80		•			•			•								•
	SON-T Deco 150W	E40	1.80	integrated															
	SON Comfort 150W	E40	1.80		•			•			•								•
	SON-T Comfort 150W	E40	1.80		•			•			•								•
	SON-T plus 150W	E40	1.80		•			•			•								•
	SON-T Hg free 150W	E40	1.80		•			•			•								•
	SON Hg free 150W	E40	1.80		•			•			•								•
	SON plus 150W	E40	1.80		•			•			•								•
250 W	SON plus 150W	E40	3.00		•						•			•					•
	SON-T 250W	E40	3.00		•						•			•					•
400 W	SON...400W	E40	4.50		•								•				•		
	SON-T...400W	E40	4.50		•								•				•		
600 W	SON-T 600W plus	E40	6.20		•											•			
1,000 W	SON 1000W	E40	10.30		•													•	

Lamp matrix – High-pressure sodium lamps

High-pressure sodium lamps, 50–1,000 W

Radium

Wattage	Description	Lamp holder	Current A	$U_{\text{ign}} = 2.5 \text{ kV}$	$U_{\text{ign}} = 5.0 \text{ kV}$	$U_{\text{ign}} < 1 \text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OFB	OFBS	OFBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
50 W	RNP-E 50W I	E27	0.76	integrated						•									
	RNP-E 50W	E27	0.76	•						•									
70 W	RNP-E 70W I	E27	1.00	integrated				•			•								
	RNP-E 70W	E27	1.00	•				•			•								
	RNP-T 70W	E27	1.00	•				•			•								
	RNP-TS 70W	Rx7s	1.00	•	•			•			•								
150 W	RNP-E 150W ...	E40	1.80		•			•			•								•
	RNT-T 150W ...	E40	1.80		•			•			•								•
	RNT-TS	Rx7s	1.80		•			•			•								•
250 W	RNP-E 250W ...	E40	3.00		•						•			•				•	
	RNP-T 250W ...	E40	3.00		•						•			•				•	
400 W	RNP-E 400W	E40	4.45		•								•			•			
	RNP-T 400W	E40	4.40		•								•			•			
600 W	RNP-T 600W	E40	6.20		•											•			
1,000 W	RNP-E 1000W	E40	10.30		•													•	
	RNP-T 1000W	E40	10.30		•													•	

HID magnetic chokes

Lamp matrix – High-pressure sodium lamps

High-pressure sodium lamps, 35 – 1,000 W

Sylvania

Wattage	Description	Lamp holder	Current A	$U_{\text{ign}} = 2.5 \text{ kV}$	$U_{\text{ign}} = 5.0 \text{ kV}$	$U_{\text{ign}} < 1 \text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OFB	OFBS	OFBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
35 W	SHP-TS 35W	E27	0.53	•				•			•								
50 W	SHP 50W ...I	E27	0.78	integrated						•									
	SHP-S 50W ...	E27	0.76	•						•									
	SHP-TS 50W	E27	0.76	•						•									
70 W	SHP 70W ...I	E27	1.00	integrated				•			•								
	SHP 70W ...	E27	1.00	•				•			•								
	SHP-T 70W ...	E27	1.00	•				•			•								
	SHP-TS 70W ...	E27	1.00	•				•			•								
	SHP 70W CO-E	E27	0.98	•				•			•								
	SHP-S 70W ...	E27	1.00	•				•			•								
100 W	SHP-S 100W	E40	1.20		•						•								
	SHP-T 100W	E40	1.20		•						•								
	SHP-TS 100W	E40	1.20		•						•								
150 W	SHP-S 150W ...	E40	1.80		•			•			•								•
	SHP-T 150W ...	E40	1.80		•			•			•								•
	SHP-TS 150W ...	E40	1.80		•			•			•								•
250 W	SHP 250W ...	E40	3.00		•						•			•				•	
	SHP-T 250W ...	E40	3.00		•						•			•				•	
	SHP-TS 250W ...	E40	3.00		•						•			•				•	
	SHP-S 250W ...	E40	3.00		•						•			•				•	
	SHP 250W ...	E40	3.00		•						•			•				•	
400 W	SHP 400W ...	E40	4.45		•								•			•			
	SHP-T 400W ...	E40	4.45		•								•			•			
	SHP-TS 400W ...	E40	4.50		•								•			•			
600 W	SHP-TS 600W	E40	6.20		•											•			
1,000 W	SHP-T 1000W ...	E40	10.30		•													•	

Lamp matrix – Metal halide lamps

Metal halide lamps, 70–1,000 W

BLV

Wattage	Description	Lamp holder	Current A	$U_{gn} = 2.5kV$	$U_{gn} = 5.0kV$	$U_{gn} < 1kV$	ECM	ECIS	OMB	OMBS	OMBIS	OFB	OFBS	OFBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
70 W	HIE... 70W ...	Rx7s, E27, G12	1.00		•			•			•								•
	C-HIT 70W W	G12	1.00		•			•			•								•
100 W	MHR 100W	Plug	1.20		•						•								
	HIE 100W	E27	1.20		•						•								
150 W	MHR 150W	Plug	1.80		•			•			•								•
	HIE 150W	G12	1.80		•			•			•								•
	C-HIT 150W W	G12	1.80		•			•			•								•
250 W	HIT 250W ...	Fc2, E40	3.00		•						•		•					•	
400 W	HIT 400W ...	E40	4.00		•							•				•			
1,000 W	HIT 1000W	E40	9.50		•													•	

Metal halide lamps, 35–2,000 W

GE

Wattage	Description	Lamp holder	Current A	$U_{gn} = 2.5kV$	$U_{gn} = 5.0kV$	$U_{gn} < 1kV$	ECM	ECIS	OMB	OMBS	OMBIS	OFB	OFBS	OFBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
35 W	CMH 35W T	G12	0.50		•						•								•
	CMH 35W TC	G8.5	0.50		•						•								•
	CMH 35W PAR	E27	0.50		•						•								•
70 W	HQI-T 70W ...	Rx7s	1.00		•			•			•								•
	HCI-T 70W	G12	1.00		•			•			•								•
	HCI-TC 70W WDL	Rx7s	1.00		•			•			•								•
	HCI-E/P 70W WDL	G8.5	1.00		•			•			•								•
	HCI-PAR 30 70W WDL	E27	1.00		•			•			•								•
100 W	MXR 100W	E27	1.20		•						•								
	CMH 100W C/U/830	E27	1.15		•						•								
150 W	ARC 150W ...	G12, Rx7s	1.80		•			•			•								•
250 W	ARC 250W ...	Fc2, E40	2.15		•			•					•					•	
400 W	ARC 400W D	E40	3.25		•							•				•			
	KRC 400W ...	E40	3.25		•				•			•			•				
2,000 W	MBIL 2000W	Special	10.30	integrated													•		

Lamp matrix – Metal halide lamps

Metal halide lamps, 35–2,000 W

Iwasaki

Wattage	Description	Lamp holder	Current A	$U_{\text{ign}} = 2.5 \text{ kV}$	$U_{\text{ign}} = 5.0 \text{ kV}$	$U_{\text{ign}} < 1 \text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OFB	OFBS	OFBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
70 W	MT 70W Color Arc	E27	1.00	•				•			•								
	MHT 70W Color Arc	G12	1.00	•				•			•								
150 W	MT 150W Color Arc	E27	1.80	•				•			•								
	MT 150W CEH-W/BU	E27	1.80	•				•			•								
250 W	MT 250W	E40	3.00		•				•			•							
	MT 250W Color Arc	E40	3.00		•						•			•				•	
400 W	MT 400W	E40	3.25		•										•				
1,000 W	MT 1000W ...	E40	8.25		•										•			•	
2,000 W	MT 2000W B-BH-L	E40	8.80			•											•		

Lamp matrix – Metal halide lamps

Metal halide lamps, 35–2,000 W

Osram

Wattage	Description	Lamp holder	Current A	U _{gn} = 2.5 kV	U _{gn} = 5.0 kV	U _{gn} < 1 kV	ECM	ECIS	OMB	OMBS	OMBIS	OFB	OFBS	OFBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
35 W	HCI-T 35W ...	G12	0.53	•							•								•
	HQI-T 35W WDL	G12	0.53	•							•								•
	HQI-T 35W WDL/BU	G12	0.53	•							•								•
	HCI-TC 35W WDL	G8.5	0.53	•							•								•
70 W	HQI-T 70W ...	G12	1.00	•				•			•								•
	HCI-T 70W	G12	1.00	•				•			•								•
	HQI-TS 70W ...	Rx7s	1.00	•				•			•								•
	HCI-TS 70W	Rx7s	1.00	•				•			•								•
	HQI-E 70W ...	E27	1.00	•				•			•								•
	HCI-T 70W WDL	G12	1.00	•				•			•								•
	HCI-TC 70W WDL	G8.5	1.00	•				•			•								•
	HCI-E/P70W WDL	E27	1.00	•				•			•								•
	HCI-PAR 30 70W WDL	E27	1.00	•				•			•								•
100 W	HQI-E 100W ...	E27	1.20	•							•								
150 W	HQI-T 150W ...	G12	1.80	•				•			•								•
	HCI-T 150W	G12	1.80	•				•			•								•
	HQI-TS 150W ...	Rx7s 24	1.80	•				•			•								•
	HCI-TS 150W ...	Rx7s 24	1.80	•				•			•								•
	HQI-E 150W ...	E27	1.80	•				•			•								•
	HTI 150W	Plug	1.80	•				•			•								•
	HQI-R 150W ...	Plug	1.80	•				•			•								•
	HCI-E/P 150W WDL	E27	1.80	•				•			•								•
250 W	HQI-E 250W N/SI	E40	2.15		•				•			•							
	HQI-E 250W ...	E40	3.00	•							•			•				•	
	HQI-T 250W N/SI	E40	2.15		•				•			•							
	HQI-T 250W ...	E40	3.00	•							•			•				•	
	HQI-TS 250W ...	Fe2	3.00	•							•			•				•	
	HCI-E 250W ...	E40	3.00	•							•			•				•	
400 W	HQI-E 400W N/SI	E27	0.62		•				•			•			•				
	HQI-E 400W ...	E27	0.80	•									•			•			
	HQI-T 400W N/SI	E27 / E40	1.15		•				•			•			•				
	HQI-T 400W ...	E40	2.15	•									•			•			
	HQI-TS 400W ...	E40	3.25	•									•			•			
	HQI-BT 400W	E40	7.50	•									•			•			
1,000 W	HQI-E 1000W	E40	9.50	•														•	
	HQI-T 1000W	E40	9.50	•														•	
2,000 W	HQI-T 2000W D	E40	10.30	•													•		
	HQI-T 2000W D/I	E40	10.30	integrated													•		
	HQI-T 2000W N	E40	8.80	integrated													•		
	HQI-T 2000W N/230 V	E40	16.50	•													•		
	HQI-T 2000W N/E/SUPER	E40	8.80	•													•		
	HQI-T 2000W N/SN/SUPER	E40	8.80		•												•		
	HQI-TS 2000W DS	Cable	11.30	•													•		
	HQI-T 3500W D	E40	18.00	•													•		

Lamp matrix – Metal halide lamps

Metal halide lamps, 35–250 W

Philips

Wattage	Description	Lamp holder	Current A	$U_{\text{ign}} = 2.5 \text{ kV}$	$U_{\text{ign}} = 5.0 \text{ kV}$	$U_{\text{ign}} < 1 \text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OFB	OFBS	OFBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
35 W	CDM-R 35W	E27	0.53		•						•								•
	CDM-T 35W	G12	0.53		•						•								•
	CDM-TC 35W	G8.5	0.53		•						•								•
	CDM-R111	Gx5.5	0.53		•						•								•
70 W	MHN-T 70W	PG12-2	1.00		•			•			•								•
	MHN-TD 70W	Rx7s	1.00		•			•			•								•
	MHW-TD 70W	Rx7s	1.00		•			•			•								•
	CDM-TT 70W	E27	1.00	•				•			•								
	CDM-R 70W	E27	1.00		•			•			•								•
	CDM-ET 70W	E27	1.00	•				•			•								
	CDM-T 70W	G12	1.00		•			•			•								•
	CDM-TD 70W	Rx7s	1.00		•			•			•								•
	CDM-TC 70W	G8.5	1.00		•			•			•								•
	CDO-ET 70W	E27	1.00	•				•			•								
	CDO-TT 70W	E27	1.00	•				•			•								
	CDM-Elite TC 70W	G8.5	1.00		•			•			•								•
	CDM-R111	Gx8.5	1.00		•			•			•								•
100 W	CDO-TT 100W	E40	1.20		•						•								
	CDO-ET 100W	E40	1.20		•						•								
150 W	CDM-T 150W ...	G12	1.80		•			•			•								•
	CDM-TD 150W	Rx7s	1.80		•			•			•								•
	CDM-TT	E40	1.80		•			•			•								•
	MHN-T 150W	RGx 12-2	1.80		•			•			•								•
	MHW-TD 150W	Rx7s	1.80		•			•			•								•
	MHN-TD 150W	Rx7s	1.80		•			•			•								•
	MHT-T 150W	RGx 12-2	1.80		•			•			•								•
	CDM-ET 150W	E40	1.80		•			•			•								•
	CDO-ET 150W	E40	1.80		•			•			•								
	CDO-TT 150W	E40	1.80		•			•			•								
250 W	HPI-T 250W	E40	2.15			•			•			•							
	HPI-T 250W	E40/E45	3.00		•				•					•	•				
	HPI plus 250W	E40	2.15			•			•			•							
	HPI plus 250W	E40	3.00			•					•			•				•	
	HPI-T plus 250W	E40	2.15		•	•			•			•							
	HPI-T plus 250W	E40	3.00		•						•			•				•	
	MHN-TD 250W	Fc2	3.00		•						•			•				•	

Lamp matrix – Metal halide lamps

Metal halide lamps, 400–2,000 W

Philips

Wattage	Description	Lamp holder	Current A	$U_{gn} = 2.5\text{ kV}$	$U_{gn} = 5.0\text{ kV}$	$U_{gn} < 1\text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OFB	OFBS	OFBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
400 W	HPI plus 400W	E40	3.40			•			•			•			•				
	HPI plus 400W	E40	3.85			•							•			•			
	HPI plus 400W BUS	E40	3.40	integrated					•			•			•				
	HPI plus 400W BUS	E40	3.85	integrated									•			•			
	HPI-T 400W	E40	3.40		•	•			•			•			•				
	HPI-T plus 400W	E40	3.40		•	•			•			•			•				
	HPI-T plus 400W	E40	3.85		•	•							•			•			
1,000 W	HPI-T 1000W	E40 / E45	8.25			•									•			•	
2,000 W	HQI-T 2000W D	E40 / E45	16.50		•										•				
	HQI-T 2000W D/I	E40 / E45	8.80		•													•	
	HQI-T 2000W N	Cable	9.60		•													•	
	HQI-T 2000W N/230 V	Cable	9.60		•													•	
	HQI-T 2000W N/E/SUPER	X830R	11.30		•													•	
	HQI-T 2000W N/SN/SUPER	X528/C	10.30		•													•	
	HQI-TS 2000W DS	X528/C	8.30		•													•	
	HQI-T 3500W D	(P)SFC	10.50		•													•	

HID magnetic chokes

Lamp matrix – Metal halide lamps

Metal halide lamps, 35–2,000 W

Radium

Wattage	Description	Lamp holder	Current A	$U_{\text{ign}} = 2.5 \text{ kV}$	$U_{\text{ign}} = 5.0 \text{ kV}$	$U_{\text{ign}} < 1 \text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OFB	OFBS	OFBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
35 W	RCI-T 35W	G12	0.53		•						•								•
70 W	HRI-T 70W ...	G12	1.00		•			•			•								•
	RCI-T 70W	G12	1.00		•			•			•								•
	HRI-TS 70W ...	Rx7s	1.00		•			•			•								•
	RCI-TS 70W	Rx7s	1.00		•			•			•								•
	HRI-E 70W ...	E27	1.00		•			•			•								•
100 W	HRI-E 100W ...	E27	1.20		•						•								
150 W	HRI-T 150W ...	G12	1.80		•			•			•								•
	RCI-T 150W ...	G12	1.80		•			•			•								•
	HRI-TS 150W ...	Rx7s	1.80		•			•			•								•
	RCI-TS 150W ...	Rx7s	1.80		•			•			•								•
	HRI-E 150W ...	E27	1.80		•			•			•								•
250 W	HRI-E 250W D	E40	3.00		•						•			•				•	
	HRI-T 250W D	E40	3.00		•						•			•				•	
	HRI-TS 250W ...	Fc2	3.00		•						•			•				•	
400 W	HRI-E 400W ...	E40	3.80		•								•			•			
	HRI-BT 400W ...	E40	4.00		•								•			•			
	HRI-TS 400W ...	Fc2	4.10		•								•			•			
1,000 W	HRI-T 1000W ...	E40	9.50		•													•	
	HRI-TS 1000W D	Fc2	9.50		•													•	
	HRI-TS 1000W D/S	Cable	9.50		•													•	
2,000 W	HQI-T 2000W D	E40	10.30		•												•		
	HQI-T 2000W D/I	E40	10.30	integrated													•		
	HQI-T 2000W N	E40	8.80		•												•		
	HQI-T 2000W N/230 V	E40	8.80	integrated													•		
	HQI-T 2000W N/E/SUPER	E40	10.30		•												•		
	HQI-T 2000W N/SN/SUPER	Cable	11.30		•												•		
	HQI-TS 2000W DS	E40	18.00		•												•		
	HQI-T 3500W D	E40	18.00		•												•		

Lamp matrix – Metal halide lamps

Metal halide lamps, 70–2,000 W

Sylvania

Wattage	Description	Lamp holder	Current A	$U_{gn} = 2.5\text{ kV}$	$U_{gn} = 5.0\text{ kV}$	$U_{gn} < 1\text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OFB	OFBS	OFBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
70 W	HSI-T 70W	E27	1.00		•			•			•								
	HRI-TS 70W ...	G12	1.00		•			•			•								•
	HSI-TD 70W	Rx7s	1.00		•			•			•								•
	CMi-T 70W WDL	G12	0.98		•			•			•								•
100 W	HSI-MP 100W ...	E27	1.20		•						•								
	HSI-TD 100W ...	Rx7s	1.20		•						•								
	MP 100W CL	E27	1.15		•						•								
150 W	HSI-TD 150W ...	Rx7s	1.80		•			•			•								•
	HSI-T 150W	G12	1.80		•			•			•								•
	CMi-T 150W WDL	G12	1.80		•			•			•								•
	HSI-MP 150W 3K	E27	1.80		•			•			•								•
250 W	HSI-TD 250W ...	Fc2	3.00		•						•		•					•	
	HSI-T 250W 4K	E40	2.15			•			•			•							
	HSI-T 250W ...	E40	3.00		•						•		•					•	
400 W	HSI-T 400W 4K	E40	3.25			•			•			•			•				
	HSI-T 400W ...	Fc2	4.00		•											•			
1,000 W	HRI-T 1000W ...	E40	8.25			•									•			•	
	HRI-TS 1000W D/S	E40	8.25			•									•			•	
2,000 W	HSI-T 2000W 380 V	E40	10.30		•												•		

HID magnetic chokes

Metal halide lamps, 70–2,000 W

Venture

Wattage	Description	Lamp holder	Current A	$U_{gn} = 2.5\text{ kV}$	$U_{gn} = 5.0\text{ kV}$	$U_{gn} < 1\text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OFB	OFBS	OFBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
70 W	HIE 70W x/x	E27	1.00		•			•			•								
100 W	HIE 100 W C/U/LU3K	E27	1.20		•						•								
150 W	HIE 150W x/x	Rx7s	1.80		•			•			•								
	HIT 150W U/LU/T38/4K	E27	1.80		•			•			•								
250 W	HIE 250W x/x/EURO/x	E40	2.15			•			•			•							
	HIE 250W x/x	E40	3.00		•				•			•							
400 W	HIE 400W x/x/EURO/x	E40	3.20			•			•			•			•				
	HIE 400W x	E40	4.00		•								•			•			

Magnetic chokes for high-intensity discharge lamps

EC, OM, OF and OG magnetic chokes from Tridonic are robust and extremely cost-effective solutions with long lives. In these chokes the impedance is matched to the particular lamp type so mercury vapour lamps, sodium lamps and metal halide lamps are guaranteed to operate according to the manufacturers' specifications and achieve their maximum luminous flux.

Mercury vapour lamps are operated with chokes without additional ignitors. There is also no need for thermal protection as there is no rectifier effect when the lamps come to the end of their lives.

Apart from a choke, sodium lamps – like most metal halide lamps without integrated starters – need an ignitor to provide the ignition pulse to start them. Because of the rectifier effect when the lamp comes to the end of its life the chokes have to have thermal protection.

The EC, OM, OF and OG chokes are characterised by extremely low power consumption, compact windings and minimal leakage field – and therefore very low noise. The result is a high level of efficiency. Small dimensions and high-quality materials complement their application-related properties.

Application-oriented design

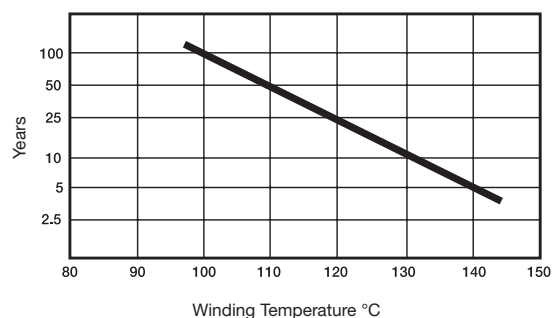
Magnetic chokes from Tridonic are available in single or multi-voltage versions. With up to three voltage taps in the OM family and up to five in the OG series there are major benefits for luminaire manufacturers because luminaires equipped with these chokes can be used for different mains voltages in different countries.

Chokes with pulse taps are optimised to operate in conjunction with pulse ignitors from Tridonic. These chokes supply very high ignition energy and are also designed for high ignition voltage, resulting in high levels of reliability. Chokes with power taps are suitable for street lighting that switch at certain times to energy-saving settings.

Chokes with double insulation for safety class 2 luminaires have compact designs because Tridonic uses high-quality insulation inside the core. All the versions have a reversible thermal protector rated at 155 °C and a thermal cutout that triggers at 214 °C. The cutout is located in the chokes to ensure reliable thermal contact and rapid triggering.

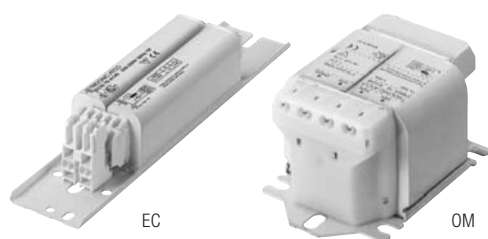
Design for long life

Because of their high-quality insulation material, coil core and copper wire, chokes in the EC, OM, OF and OG series from Tridonic achieve a maximum life of approximately 100,000 hours of operation, in other words about ten years of constant use at a winding temperature of 130 °C ($t_w = 130\text{ °C}$). The winding temperature is the ambient temperature plus the increase in temperature due to the power consumption of the unit. A change in temperature of 10 °C down or up leads to a doubling or halving of the life of the unit.



Constant high quality

The consistently high quality and reliability of magnetic chokes from Tridonic are guaranteed by the use of high-grade materials together with manufacturing processes certified to ISO 9001. Fully automatic manufacture also ensures constant reproducible quality. All the chokes are subjected to 100 % final testing and safety testing.

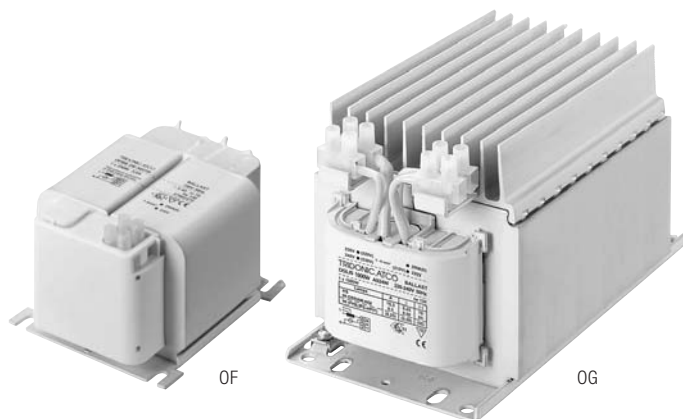


Type series EC

Because of their small dimensions (41 x 31 mm), magnetic chokes of type series EC are particularly useful if only chokes have to be installed in small cross-sections, such as tube systems. The range covers the operation of high-intensity discharge lamps with wattages up to 150 W. EC units are available with a core length of 90 to 160 mm and with either screw or plug-in terminals.

Type series OM

Magnetic chokes in the OM series are suitable for operating mercury vapour lamps, sodium lamps and metal halide lamps with wattages from 35 to 400 W. Their compact design makes them ideal for stylish luminaires. The plug-in terminals enable connections to be made quickly and reliably; voltage taps are also easy to select. Versions with various footplates and different mounting options are also available. The cross-section of the OM series is 65 x 47 mm for core lengths of 30 to 150 mm.



HID magnetic chokes

Type series OF

OF chokes are available for wattages of 250 and 400 W. With a core length of 40 to 90 mm and a cross-section of 82 x 57 mm, this series is positioned between the OM and OG series. Equipped with robust screw terminals in the coil head, the OF chokes are excellent for compact luminaire designs for the above-mentioned output range.

Type series OG

Chokes in the OG series are suitable for high-intensity discharge lamps in the high-wattage range from 250 to 3,500 W. With a width of 107 mm, a height of 78, 90 or 106 mm and core lengths between 30 and 210 mm, the OG units are designed for high efficiency and low self-heating. The screw terminals are suitable for wire cross-sections from 1 to 4 mm² and from 1 to 6 mm².

Standards and approval marks

Magnetic chokes for HID lamps from Tridonic are ENEC certified, carry the CE mark and meet all the relevant European as well as international standards relating to safety, operation and electromagnetic compatibility (EMC).

Technical Information and lamp matrix

The latest technical information can be downloaded from the internet: www.tridonic.com, menu "Technical Information", submenu "Data sheets" or "Lamp matrix"

Supply units for high-intensity discharge lamps

The OM PAK supply units from Tridonic combine choke, ignitor, p.f. correction capacitor and terminals in a compact casing. These independent units in safety class 2 are very easy to install. No tools are needed at all, so they save an enormous amount of time on site.

All the supply units for operating metal halide lamps or sodium lamps are temperature-protected and are suitable for mounting on normally flammable material (fire category F). The units are preset at the factory for maximum possible voltage tapping. This can be adjusted to the actual supply voltage without the need for any tools.

The robust design also means that the units can be used at high ambient temperatures (t_a). The compact casing design results in exceptionally quiet operation.



OM PAK 70 B533

The supply units are available with or without prewired lamp cables. Screwless terminals make it easier to connect to the mains. Quick fastening of the terminal covers and tool-less cable clamps add-up to efficient installation.

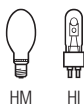


The ignitors used are an essential quality feature of the powerPAK series from Tridonic. There is a choice of two superimposed-pulse ignitors – the successful standard ZRM ES/C ignitor or the ZRM/CT ignitor with digital timer and pulse-pause operation.

The additional version, the OM PAK “long distance” supply unit is designed for lighting solutions with high-intensity discharge lamps in applications such as retail outlets, churches and doctors’ practices.

The integrated ZRM powerPULSE pulse ignitor is extremely quiet in operation and actively regulates the ignition voltage within a narrow bandwidth (± 0.2 kV) with reference to the normal value. The extremely stable ignition voltage curve ensures optimum reliability even for applications with long cable lengths. OM PAK “long distance” supply units from Tridonic can be installed separately from the luminaires (in suspended ceilings for example) which means they are flexible in terms of where they can be located. This arrangement avoids a thermal build-up and improves weight distribution.

With these different versions Tridonic presents a rounded application-oriented range of OM PAK supply units that ensure that high-intensity discharge lamps are operated in accordance with manufacturers’ specifications.



OMB 50 – 400 W

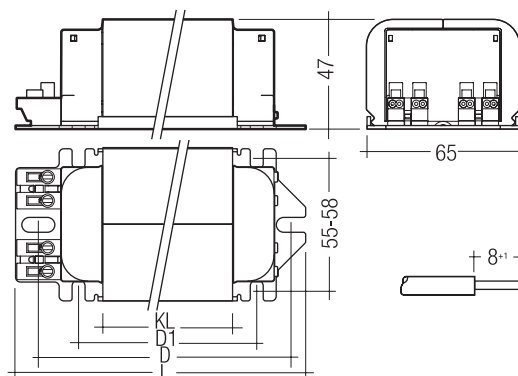
Mercury vapour lamps, metal halide lamps

Product description

- For mercury vapour lamps and metal halide lamps
 - Chokes with reversible thermal cutout: trigger temperature 155 °C
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Max. winding temperature tw	130 °C
Plug terminal	0.5 – 1.5 mm ²



Product matrix, page 150

Lamp matrix, page 152

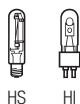
Suitable ignitors, page 207

Ordering data

Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
Chokes in standard design				
0.80 kg	10 pieces	480 pieces	OMB 50 A604K 220-240/50 030A098T	22148614
1.20 kg	10 pieces	480 pieces	OMB 125 A604K 220-240/50 045A113T	22148596
2.00 kg	10 pieces	480 pieces	OMB 250 A604K 220-240/50 085A153T	22148598
2.80 kg	10 pieces	240 pieces	OMB 400 A604K 220-240/50 120A188T	22148615
Chokes with power tapping				
0.90 kg	10 pieces	480 pieces	OMB 80/50 A603K 230/240/50 035A103T	22148595
1.37 kg	315 pieces	315 pieces	OMB 125/80 A603K 230/240/50 055A123HL	22158552
1.14 kg	10 pieces	480 pieces	OMB 125/80 Z603K 230/240/50 045A113T	22148861

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal pro- tection	Length L	Fixing dimensions		Core length CL	Δ T	Power consumption	λ	Compensation, parallel (cos φ > 0.9)	
							Hole spacing D	Hole spacing D1					Capacitor μF ± 10 % 250 V	Mains current
Chokes in standard design														
OMB 50 A604K	50 W	HM/HI	220/230/240 V	50 Hz	yes	98 mm	75–84 mm	50.5 mm	30 mm	60 K	8.6 W	0.41	7 μF	0.27 A
OMB 125 A604K	125 W	HM	220/230/240 V	50 Hz	yes	113 mm	90–99 mm	65.5 mm	45 mm	65 K	12.4 W	0.52	10 μF	0.63 A
OMB 250 A604K	250 W	HM/HI	220/230/240 V	50 Hz	yes	153 mm	130–139 mm	105.5 mm	85 mm	70 K	22.1 W	0.55	18 μF	1.25 A
OMB 400 A604K	400 W	HM/HI	220/230/240 V	50 Hz	yes	188 mm	165–174 mm	140.5 mm	120 mm	75 K	35.4 W	0.56	25 μF	2.00 A
Chokes with power tapping														
OMB 80/50 A603K	80/50 W		230/240 V	50 Hz	yes	103 mm	80–89 mm	55.5 mm	35 mm	70/50 K	11.6/8.8 W	0.49/0.41	8 μF	0.43 A
OMB 125/80 A603K	125/80 W	HM	230/240 V	50 Hz	yes	123 mm	100–109 mm	75.5 mm	55 mm	60/40 K	14.6/9.3 W	0.52/0.48	10 μF	0.63 A
OMB 125/80 Z603K	125/80 W	HM	230/240 V	50 Hz	yes	113 mm	90–99 mm	65.5 mm	45 mm	85/60 K	17.5/10.4 W	0.57/0.50	10 μF	0.63 A



OMBIS 35 – 150 W und OMBS 50 – 150 W

Sodium vapour lamps, metal halide lamps

Product description

- For sodium lamps and metal halide lamps
 - Chokes with reversible thermal cutout: trigger temperature 155 °C
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

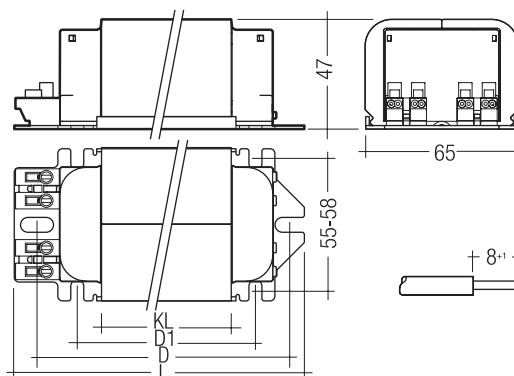
Max. winding temperature tw	130 °C
Plug terminal	0.5 – 1.5 mm ²



Product matrix, page 150

Lamp matrix, page 152

Suitable ignitors, page 207

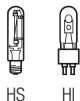


Ordering data

Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
Chokes in standard design				
0.85 kg	10 pieces	480 pieces	OMBIS 35 A604W 220-240/50 030A098T	22148862
0.96 kg	10 pieces	480 pieces	OMBIS 35 B604W 220-240/50 035A103T	22148600
0.90 kg	10 pieces	480 pieces	OMBS 50 A604W 220-240/50 035A103T	22148616
1.20 kg	10 pieces	480 pieces	OMBIS 70 A604W 220-240/50 045A113T	22148601
1.40 kg	10 pieces	480 pieces	OMBIS 70 B604W 220-240/50 055A123T	22148602
1.40 kg	10 pieces	480 pieces	OMBIS 100 A604W 220-240/50 055A123T	22148604
1.90 kg	10 pieces	480 pieces	OMBIS 150 A604W 220-240/50 075A143T	22148606
2.00 kg	10 pieces	480 pieces	OMBIS 150 B604W 220-240/50 085A153T	22148607
Chokes with power tapping				
1.17 kg	10 pieces	480 pieces	OMBS 70/50 Z603W 230/240/50 045A113T	22158510
1.60 kg	10 pieces	480 pieces	OMBS 100/70 A603W 230/240/50 065A133T	22148605
2.40 kg	10 pieces	240 pieces	OMBS 150/100 A603W 230/240/50 105A173T	22148608

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal pro- tection	Length L	Fixing dimensions		Core length CL	ΔT	Power consumption	λ	Compensation, parallel ($\cos \phi > 0.9$)	
							Hole spacing D	Hole spacing D1					Capacitor μF $\pm 10\%$ 250V	Mains current
Chokes in standard design														
OMBIS 35 A604W	35W	HS/HI	220/230/240V	50Hz	yes	98 mm	75–84 mm	50.5 mm	30 mm	60 K	7.7 W	0.34	6 μF	0.22 A
OMBIS 35 B604W	35 W	HS/HI	220/230/240 V	50 Hz	yes	103 mm	80–89 mm	55.5 mm	35 mm	50 K	7.3 W	0.36	6 μF	0.22 A
OMBS 50 A604W	50 W	HS	220/230/240 V	50 Hz	yes	103 mm	80–89 mm	55.5 mm	35 mm	70 K	11.7 W	0.35	10 μF	0.30 A
OMBIS 70 A604W	70 W	HS/HI	220/230/240 V	50 Hz	yes	113 mm	90–99 mm	65.5 mm	45 mm	70 K	12.1 W	0.37	12 μF	0.43 A
OMBIS 70 B604W	70 W	HS/HI	220/230/240 V	50 Hz	yes	123 mm	100–109 mm	75.5 mm	55 mm	65 K	12.4 W	0.37	12 μF	0.43 A
OMBIS 100 A604W	100 W	HS/HI	220/230/240 V	50 Hz	yes	123 mm	100–109 mm	75.5 mm	55 mm	65 K	13.7 W	0.40	12 μF	0.55 A
OMBIS 150 A604W	150 W	HS/HI	220/230/240 V	50 Hz	yes	143 mm	120–129 mm	95.5 mm	75 mm	75 K	18.5 W	0.42	20 μF	0.80 A
OMBIS 150 B604W	150 W	HS/HI	220/230/240 V	50 Hz	yes	153 mm	130–139 mm	105.5 mm	85 mm	65 K	18.7 W	0.40	20 μF	0.80 A
Chokes with power tapping														
OMBS 70/50 Z603W	70/50W	HS	230/240V	50Hz	yes	113 mm	90–99 mm	65.5 mm	45 mm	70/50 K	14.0/9.5 W	0.38/0.34	12 μF	0.38 A
OMBS 100/70 A603W	100/70W	HS	230/240V	50Hz	yes	133 mm	110–119 mm	85.5 mm	65 mm	65/55 K	13.7/10.7 W	0.40/0.33	12 μF	0.55 A
OMBS 150/100 A603W	150/100W	HS	230/240V	50Hz	yes	173 mm	150–159 mm	125.5 mm	105 mm	70/45 K	21.6/12.2 W	0.41/0.39	20 μF	0.80 A

**OMBIS 35 – 250 W und OMBS 70 W**

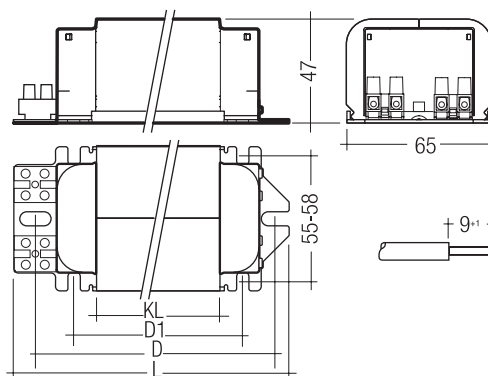
Sodium vapour lamps, metal halide lamps

Product description

- For sodium lamps and metal halide lamps
 - Chokes with pulser tapping
 - Suitable with Tridonic impulser ignitors
 - Chokes with reversible thermal cutout: trigger temperature 155 °C
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Max. winding temperature tw	130 °C
Screw terminal	0.75 – 2.5 mm ²

**Product matrix**, page 150**Lamp matrix**, page 152**Suitable ignitors**, page 207**Ordering data**

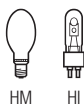
Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
Chokes with pulser tapping				
0.9 kg	10 pieces	480 pieces	OMBIS 35 PB503W 230/240/50 035A103T	22148609
1.2 kg	10 pieces	480 pieces	OMBS 70 PA503W 230/240/50 045A113T	22148611
1.2 kg	10 pieces	480 pieces	OMBI 70 PA503W 230/240/50 045A113T	22148610
1.4 kg	10 pieces	480 pieces	OMBIS 100 PA503W 230/240/50 055A123T	22148612
2.0 kg	10 pieces	480 pieces	OMBIS 150 PB503W 230/240/50 085A153T	22148613
2.8 kg	–	195 pieces	OMBIS 250 PZ 503W 230/240/50 120A188HL	22149230

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal protection	Length L	Fixing dimensions		Core length CL	ΔT	Power consumption	λ	Compensation, parallel (cos φ > 0.9)	
							Hole spacing D	Hole spacing D1					Capacitor μF ± 10 % 250V	Mains current
Chokes with pulser tapping														
OMBIS 35 PB503W	35 W	HS/HS	230/240 V	50 Hz	yes	103 mm	80 – 89 mm	55.5 mm	35 mm	50 K	7.5 W	0.36	6 μF	0.22 A
OMBS 70 PA503W	70 W	HS	230/240 V	50 Hz	yes	113 mm	90 – 99 mm	65.5 mm	45 mm	70 K	13.1 W	0.37	12 μF	0.38 A
OMBI 70 PA503W	70 W	HS	230/240 V	50 Hz	yes	113 mm	90 – 99 mm	65.5 mm	45 mm	70 K	13.1 W	0.37	12 μF	0.43 A
OMBIS 100 PA503W	100 W	HS/HS	230/240 V	50 Hz	yes	123 mm	100 – 109 mm	75.5 mm	55 mm	65 K	13.7 W	0.40	12 μF	0.55 A
OMBIS 150 PB503W	150 W	HS/HS	230/240 V	50 Hz	yes	153 mm	130 – 139 mm	105.5 mm	85 mm	65 K	18.1 W	0.40	20 μF	0.80 A
OMBIS 250 PZ 503W	250 W	HS/HS	230/240 V	50 Hz	yes	188 mm	165 – 174 mm	140.5 mm	120 mm	80 K	28.6 W	0.40	32 μF	1.35 A



Only for devices with double insulation:



OMB 50 – 400 W

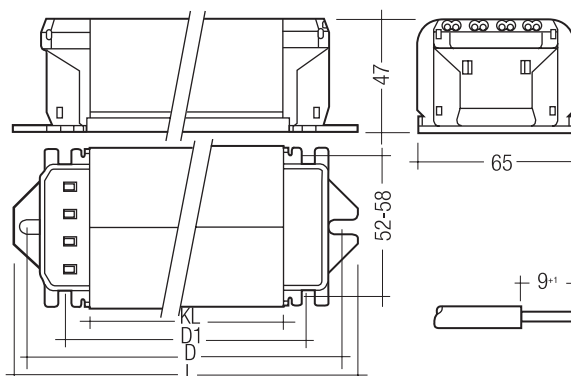
Mercury vapour lamps, metal halide lamps

Product description

- For mercury vapour lamps and metal halide lamps
 - Chokes with reversible thermal cutout: trigger temperature 155 °C
 - Device with double insulation: irreversible thermal cutout, trigger temperature 214 °C
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Max. winding temperature tw	130 °C
Plug terminal	0.75 – 2.5 mm ²



Product matrix, page 150

Lamp matrix, page 152

Suitable ignitors, page 207

Ordering data

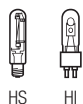
Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
Chokes in standard design				
0.8 kg	10 pieces	480 pieces	OMB 80 A103K 230/240/50 030A092T	20571079
Chokes with power tapping				
0.9 kg	10 pieces	480 pieces	OMB 80/50 A103K 230/240/50 035A097T	20574609
1.4 kg	10 pieces	480 pieces	OMB 125/80 A103K 230/240/50 055A117T	20574618
Chokes with double insulation and power tapping				
0.6 kg	10 pieces	480 pieces	OMB 80/50 A201B 230/50 035A097T	22148967
0.9 kg	10 pieces	480 pieces	OMB 80/50 A211B 230/50 035A117T	22148968
Chokes for 60 Hz				
0.8 kg	10 pieces	480 pieces	OMB 80 A106K 220-240/60 035A097T	20574671
3.4 kg	6 pieces	240 pieces	OMB 400 B107K 220-240/60 150A212T	20888680

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal protection	Length L	Fixing dimensions		Core length CL	Δ T	Power consumption	λ	Compensation, parallel (cos φ > 0.9)	
							Hole spacing D	Hole spacing D1					Capacitor μF ± 10 % 250 V	Mains current
Chokes in standard design														
OMB 80 A103K	80 W	HM	230/240 V	50 Hz	no	92 mm	75–84 mm	50.5 mm	30 mm	65 K	11.4 W	0.49	8 μF	0.43 A
Chokes with power tapping														
OMB 80/50 A103K	80/50 W	HM	230/240 V	50 Hz	no	97 mm	80–89 mm	55.5 mm	35 mm	70/50 K	11.6/8.8 W	0.49/0.41	8 μF	0.43 A
OMB 125/80 A103K	125/80 W	HM	230/240 V	50 Hz	no	117 mm	100–109 mm	75.5 mm	55 mm	70/50 K	14.2/8.9 W	0.52/0.48	10 μF	0.63 A
Chokes with double insulation and power tapping														
OMB 80/50 A201B	80/50 W	HM	230 V	50 Hz	yes	97 mm	80–89 mm	55.5 mm	35 mm	70/65 K	11.1/8.4 W	0.49/0.41	8 μF	0.43 A
OMB 80/50 A211B	80/50 W	HM	230 V	50 Hz	yes	117 mm	100–109 mm	75.5 mm	35 mm	65/50 K	11.1/8.4 W	0.49/0.41	8 μF	0.43 A
Chokes for 60 Hz														
OMB 80 A106K	80 W	HM	220/230/240 V	60 Hz	no	92 mm	75–84 mm	50.5 mm	30 mm	65 K	10.5 W	0.45	8 μF	0.43 A
OMB 400 B107K	400 W	HM/HI	220/230/240 V	60 Hz	no	212 mm	195–204 mm	170.5 mm	150 mm	65 K	25.4 W	0.57	25 μF	2.00 A



Only for devices with double insulation:



NEW

OMBIS 35 – 250 W and OMBS 50 – 150 W

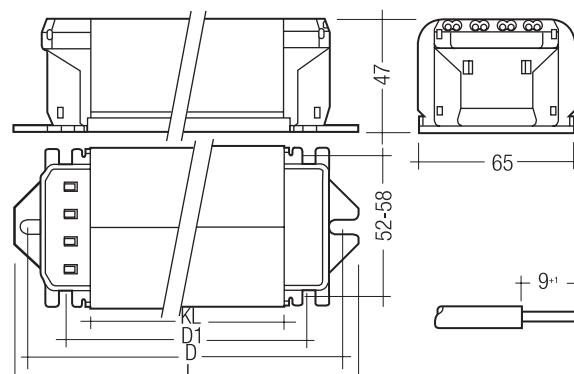
Sodium vapour lamps, metal halide lamps

Product description

- For sodium lamps and metal halide lamps
 - Chokes with reversible thermal cutout: trigger temperature 155 °C
 - Device with double insulation: irreversible thermal cutout, trigger temperature 214 °C
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Max. winding temperature tw	130 °C
Plug terminal	0.75 – 2.5 mm ²



Product matrix, page 150

Lamp matrix, page 152

Suitable ignitors, page 207

Ordering data

Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
Chokes in standard design				
0.9 kg	10 pieces	480 pieces	OMBIS 35 B103W 230-250/50 035A097T	20569782
1.2 kg	10 pieces	480 pieces	OMBIS 70 A103W 230-250/50 045A107T	20568074
1.4 kg	10 pieces	480 pieces	OMBIS 70 B103W 230-250/50 055A117T	20575741
1.6 kg	10 pieces	480 pieces	OMBIS 70 C103W 230-250/50 065A127T	20820295
1.4 kg	10 pieces	480 pieces	OMBIS 100 A103W 230-250/50 055A117T	20568891
1.8 kg	10 pieces	480 pieces	OMBIS 100 C103W 230-250/50 075A137T	20570572
1.9 kg	10 pieces	480 pieces	OMBIS 150 A103W 230-250/50 075A137T	20568879
2.0 kg	10 pieces	480 pieces	OMBIS 250 1/2 B103W 230-250/50 085A147T	20575656
Chokes with double insulation				
0.8 kg	10 pieces	480 pieces	OMBIS 35 A203D 230-250/50 030A092T	22148980
1.4 kg	10 pieces	480 pieces	OMBIS 100 A203D 230-250/50 055A117T	22148971
1.8 kg	10 pieces	480 pieces	OMBIS 150 A204D 220-240/50 075A137T	22148972
Chokes with power tapping				
1.4 kg	10 pieces	480 pieces	OMBS 70/50 A103W 230/240/50 055A117T	20885000
1.6 kg	10 pieces	480 pieces	OMBS 100/70 A103W 230/240/50 065A127T	20885053
2.4 kg	10 pieces	240 pieces	OMBS 150/100 A103W 230/240/50 105A167T	20885094
Chokes for 60 Hz				
1.2 kg	10 pieces	480 pieces	OMBIS 70 A106W 220-240/60 045A107T	20574788
1.4 kg	10 pieces	480 pieces	OMBIS 100 A106W 220-240/60 055A117T	20574794
1.9 kg	10 pieces	480 pieces	OMBIS 150 A106W 220-240/60 060A114	20571288

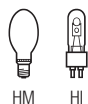
Specific technical data

Technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal protection	Length L	Fixing dimensions		Core length CL	Δ T	Power consumption	λ	Compensation, parallel (cos φ > 0.9)	
							Hole spacing D	Hole spacing D1					Capacitor μF ± 10 % 250 V	Mains current
Chokes in standard design														
OMBIS 35 B103W	35 W	HS/Hi	230/240/250 V	50 Hz	yes	97 mm	80–89 mm	55.5 mm	35 mm	50 K	7.5 W	0.36	6 μF	0.22 A
OMBIS 70 A103W	70 W	HS/Hi	230/240/250 V	50 Hz	yes	107 mm	90–99 mm	65.5 mm	45 mm	70 K	12.1 W	0.37	12 μF	0.38 A
OMBIS 70 B103W	70 W	HS/Hi	230/240/250 V	50 Hz	yes	117 mm	100–109 mm	75.5 mm	55 mm	65 K	12.4 W	0.37	12 μF	0.38 A
OMBIS 70 C103W	70 W	HS/Hi	230/240/250 V	50 Hz	yes	127 mm	110–119 mm	85.5 mm	65 mm	55 K	12.2 W	0.37	12 μF	0.43 A
OMBIS 100 A103W	100 W	HS/Hi	230/240/250 V	50 Hz	yes	117 mm	100–109 mm	75.5 mm	55 mm	65 K	13.7 W	0.40	12 μF	0.55 A
OMBIS 100 C103W	100 W	HS/Hi	230/240/250 V	50 Hz	yes	137 mm	120–129 mm	95.5 mm	75 mm	60 K	13.9 W	1.20	12 μF	0.55 A
OMBIS 150 A103W	150 W	HS/Hi	230/240/250 V	50 Hz	yes	137 mm	120–129 mm	95.5 mm	75 mm	85 K	19.5 W	0.42	20 μF	0.80 A
OMBIS 250 1/2 B103W	250 W	HS/Hi	230/240/250 V	50 Hz	yes	147 mm	130–139 mm	105.5 mm	85 mm	70 K	18.3 W	0.40	32 μF	1.35 A
Chokes with double insulation														
OMBIS 35 A203D	35 W	HS/Hi	230/240/250 V	50 Hz	yes	92 mm	75–84 mm	50.5 mm	30 mm	60 K	8.0 W	0.37	6 μF	0.22 A
OMBIS 100 A203D	100 W	HS/Hi	230/240/250 V	50 Hz	yes	117 mm	100–109 mm	75.5 mm	55 mm	65 K	13.7 W	0.40	12 μF	0.55 A
OMBIS 150 A204D	150 W	HS/Hi	220/230/240 V	50 Hz	yes	137 mm	120–129 mm	95.5 mm	75 mm	75 K	18.5 W	0.42	20 μF	0.80 A
Chokes with power tapping														
OMBS 70/50 A103W	70/50 W	HS	230/240 V	50 Hz	yes	117 mm	100–109 mm	75.5 mm	55 mm	65/40 K	13.8/9.4 W	0.35	12 μF	0.38 A
OMBS 100/70 A103W	100/70 W	HS	230/240 V	50 Hz	yes	127 mm	110–119 mm	85.5 mm	65 mm	65/55 K	13.7/10.7 W	0.40/0.33	12 μF	0.55 A
OMBS 150/100 A103W	150/100 W	HS	230/240 V	50 Hz	yes	167 mm	150–159 mm	125.5 mm	105 mm	70/45 K	21.6/12.2 W	0.41/0.39	20 μF	0.80 A
Chokes for 60 Hz														
OMBIS 70 A106W	70 W	HS/Hi	220/230/240 V	60 Hz	yes	107 mm	90–99 mm	65.5 mm	45 mm	60 K	11.8 W	0.38	10 μF	0.38 A
OMBIS 100 A106W	100 W	HS/Hi	220/230/240 V	60 Hz	yes	117 mm	100–109 mm	75.5 mm	55 mm	60 K	12.6 W	0.39	10 μF	0.55 A
OMBIS 150 A106W	150 W	HS/Hi	220/230/240 V	60 Hz	yes	137 mm	120–129 mm	95.5 mm	75 mm	70 K	17.4 W	0.40	16 μF	0.80 A



Only for devices with double insulation:



OMB 50 – 400 W

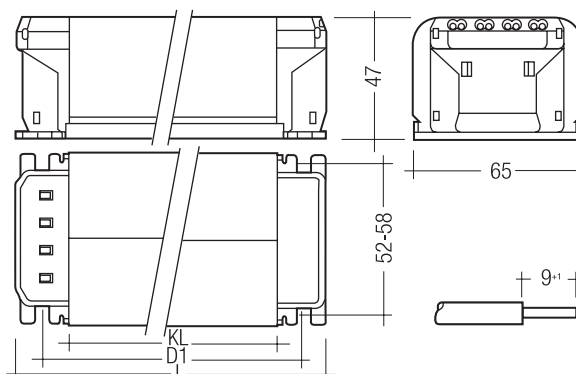
Mercury vapour lamps, metal halide lamps

Product description

- For mercury vapour lamps and metal halide lamps
 - Chokes with reversible thermal cutout: trigger temperature 155 °C
 - Device with double insulation: irreversible thermal cutout, trigger temperature 214 °C
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Max. winding temperature tw	130 °C
Plug terminal	0.75 – 2.5 mm ²



→ **Product matrix**, page 150

Lamp matrix, page 152

Suitable ignitors, page 207

Ordering data

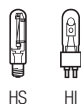
Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
Chokes in standard design				
0.80 kg	10 pieces	480 pieces	OMB 50 A153K 230/240/50 030A066T	20824582
0.80 kg	10 pieces	480 pieces	OMB 80 A153K 230/240/50 030A066T	20824609
Chokes with power tapping				
0.90 kg	10 pieces	480 pieces	OMB 80/50 A153K 230/240/50 035A071T	20824624
Chokes with double insulation and power tapping				
1.33 kg	–	480 pieces	OMB 125/80 A251B 230/50 055A091T	22148960

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal protection	Length L	Fixing dimensions	Core length CL	ΔT	Power con- sumption	λ	Compensation, parallel (cos φ > 0.9)	
							Hole spacing D1					Capacitor μF ± 10 % 250V	Mains current
Chokes in standard design													
OMB 50 A153K	50 W	HM/HI	230/240 V	50 Hz	no	66 mm	50.5 mm	30 mm	60 K	8.6 W	0.41	7 μF	0.27 A
OMB 80 A153K	80 W	HM	230/240 V	50 Hz	no	66 mm	50.5 mm	30 mm	65 K	11.4 W	0.49	8 μF	0.43 A
Chokes with power tapping													
OMB 80/50 A153K	80/50 W	HM	230/240 V	50 Hz	no	71 mm	55.5 mm	35 mm	70/50 K	11.6/8.8 W	0.49/0.41	8 μF	0.43 A
Chokes with double insulation and power tapping													
OMB 125/80 A251B	125/80 W	HM	230 V	50 Hz	yes	91 mm	75.5 mm	55 mm	60/40 K	13.1/8.3 W	0.52/0.48	10 μF	0.63 A



Only for devices with double insulation:



OMBIS 35 – 250 W and OMBS 50 – 150 W

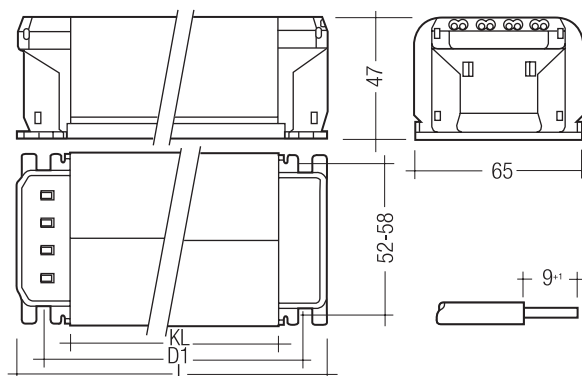
Sodium vapour lamps, metal halide lamps

Product description

- For sodium lamps and metal halide lamps
 - Chokes with reversible thermal cutout: trigger temperature 155 °C
 - Device with double insulation: irreversible thermal cutout, trigger temperature 214 °C
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Max. winding temperature tw	130 °C
Plug terminal	0.75 – 2.5 mm ²



Product matrix, page 150

Lamp matrix, page 152

Suitable ignitors, page 207

Ordering data

Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
Chokes in standard design				
0.90 kg	10 pieces	480 pieces	OMBIS 35 B153W 230-250/50 035A071T	20824173
1.20 kg	10 pieces	480 pieces	OMBIS 70 A153W 230-250/50 045A081T	20824220
1.60 kg	10 pieces	480 pieces	OMBIS 70 C153W 230-250/50 065A101T	20824343
1.90 kg	10 pieces	480 pieces	OMBIS 150 A153W 230-250/50 075A111T	20880440
2.00 kg	10 pieces	480 pieces	OMBIS 150 B153W 230-250/50 085A121T	20824469
2.40 kg	10 pieces	240 pieces	OMBIS 150 C153W 230-250/50 105A141T	20824504
3.50 kg	6 pieces	240 pieces	OMBIS 250 A153W 230-250/50 150A186T	20824891
Chokes with double insulation				
1.15 kg	10 pieces	480 pieces	OMBIS 70 A253D 230-250/50 045A081T	22148985
2.00 kg	10 pieces	480 pieces	OMBIS 150 B253D 230-250/50 085A121T	22148973
03 Chokes with power tapping				
1.60 kg	10 pieces	480 pieces	OMBS 100/70 A153W 230/240/50 065A101T	20885066
2.45 kg	10 pieces	240 pieces	OMBS 150/100 A153W 230/240/50 105A141T	20885109
Chokes with double insulation and power tapping				
1.15 kg	10 pieces	480 pieces	OMBS 50/35 A251D 230/50 045A081T	22148993
1.40 kg	10 pieces	480 pieces	OMBS 70/50 A251D 230/50 055A091T	22148996
1.70 kg	10 pieces	480 pieces	OMBS 100/70 A251D 230/50 065A101T	22148988
2.50 kg	10 pieces	240 pieces	OMBS 150/100 A251D 230/50 105A141T	22148990

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal protection	Length L	Fixing dimensions Hole spacing D1	Core length CL	ΔT	Power consumption	λ	Compensation, parallel ($\cos \phi > 0.9$) Capacitor $\mu F \pm 10\%$ 250V Mains current	
Chokes in standard design													
OMBIS 35 B153W	35W	HS/HSI	230/240/250V	50Hz	yes	71 mm	55.5 mm	35 mm	50K	7.5W	0.36	6 μF	0.22 A
OMBIS 70 A153W	70W	HS/HSI	230/240/250V	50Hz	yes	81 mm	65.5 mm	45 mm	70K	12.1W	0.37	12 μF	0.38 A
OMBIS 70 C153W	70W	HS/HSI	230/240/250V	50Hz	yes	101 mm	85.5 mm	65 mm	55K	12.2W	0.37	12 μF	0.43 A
OMBIS 150 A153W	150W	HS/HSI	230/240/250V	50Hz	yes	111 mm	95.5 mm	75 mm	85K	19.5W	0.42	20 μF	0.80 A
OMBIS 150 B153W	150W	HS/HSI	230/240/250V	50Hz	yes	121 mm	105.5 mm	85 mm	65K	18.7W	0.40	20 μF	0.80 A
OMBIS 150 C153W	150W	HS/HSI	230/240/250V	50Hz	yes	141 mm	125.5 mm	105 mm	65K	18.9W	0.40	20 μF	0.80 A
OMBIS 250 A153W	250W	HS/HSI	230/240/250V	50Hz	yes	186 mm	170.5 mm	150 mm	75K	34.2W	0.40	32 μF	1.35 A
Chokes with double insulation													
OMBIS 70 A253D	70W	HS/HSI	230/240/250V	50Hz	yes	81 mm	65.5 mm	45 mm	70K	12.1W	0.37	12 μF	0.38 A
OMBIS 150 B253D	150W	HS/HSI	230/240/250V	50Hz	yes	121 mm	105.5 mm	85 mm	70K	18.3W	0.41	20 μF	0.80 A
Chokes with power tapping													
OMBS 100/70 A153W	100/70W	HS	230/240V	50Hz	yes	101 mm	85.5 mm	65 mm	65/55K	13.7/10.7W	0.40/0.33	12 μF	0.55 A
OMBS 150/100 A153W	150/100W	HS	230V	50Hz	yes	167 mm	125.5 mm	105 mm	75/45K	21.0/11.8W	0.41/0.41	20 μF	0.80 A
Chokes with double insulation and power tapping													
OMBS 50/35 A251D	50/35W	HS	230V	50Hz	yes	81 mm	65.5 mm	45 mm	65/35K	10.8/6.7W	0.37/0.37	10 μF	0.30 A
OMBS 70/50 A251D	70/50W	HS	230V	50Hz	yes	91 mm	75.5 mm	55 mm	65/40K	13.5/9.2W	0.34/0.35	12 μF	0.38 A
OMBS 100/70 A251D	100/70W	HS	230V	50Hz	yes	101 mm	85.5 mm	65 mm	65/55K	13.0/10.5W	0.40/0.33	12 μF	0.55 A
OMBS 150/100 A251D	150/100W	HS	230V	50Hz	yes	141 mm	130.5 mm	105 mm	70/45K	21.0/11.8W	0.41/0.41	20 μF	0.80 A



OMB 35 – 100 W

For CSLS ignitors (Philips)

Product description

- Chokes with reversible thermal cutout: trigger temperature 150 °C
- For product data sheet go to www.tridonic.com, or available on request

Technical data

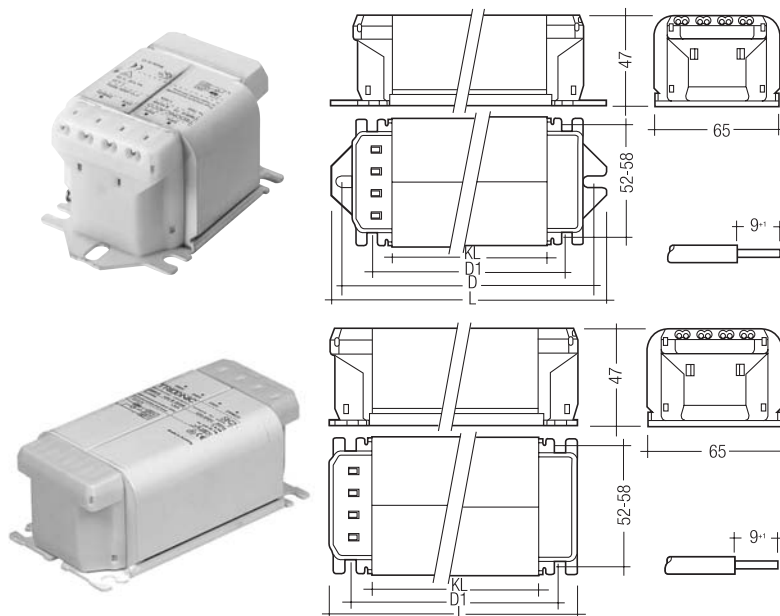
Max. winding temperature tw	130 °C
Plug terminal	0.75 – 2.5 mm ²



Product matrix, page 150

Lamp matrix, page 152

Suitable ignitors, page 207



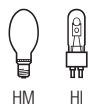
HID magnetic chokes

Ordering data

Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
0.9 kg	10 pieces	480 pieces	OMB SDW 35 B153W 220-240/50 035A071T	20823181
1.0 kg	10 pieces	480 pieces	OMB SDW 50 B103W 220-240/50 040A102T	20574343
1.7 kg	10 pieces	480 pieces	OMB SDW 100 B103W 220-240/50 075A137T	20574359
1.7 kg	10 pieces	480 pieces	OMB SDW 100 B153W 220-240/50 075A111T	20823207

Specific technical data

Type	Lamp wattage	Mains frequency	Thermal protection	Length L	Fixing dimensions		Core length CL	Δ T	Power consumption	λ	Compensation, parallel (cos φ > 0.9) Capacitor μF ± 10 % 250 V
					Hole spacing D	Hole spacing D1					
OMB SDW 35 B153W	35 W	50 Hz	yes	71 mm	—	55 mm	35 mm	50 K	6.2 W	0.36	6 μF
OMB SDW 50 B103W	50 W	50 Hz	yes	102 mm	85 – 94 mm	60 mm	50 mm	65 K	9.5 W	0.33	8 μF
OMB SDW 100 B103W	100 W	50 Hz	yes	137 mm	120 – 129 mm	95 mm	75 mm	55 K	12.7 W	0.36	14 μF
OMB SDW 100 B153W	100 W	50 Hz	yes	111 mm	—	95 mm	75 mm	55 K	12.7 W	0.36	14 μF



OFB 250 – 400 W

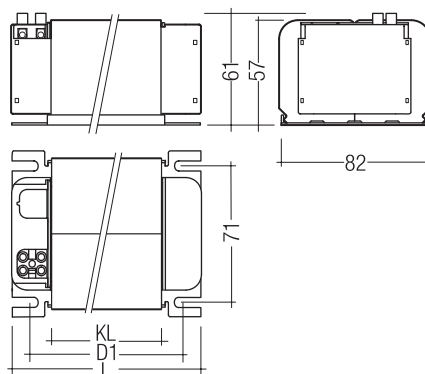
Mercury vapour lamps, metal halide lamps

Product description

- For mercury vapour lamps and metal halide lamps
 - Chokes with reversible thermal cutout: trigger temperature 155 °C
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Max. winding temperature t_w	130 °C
Screw terminal	1 – 4 mm ²



Product matrix, page 150

Lamp matrix, page 152

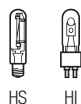
Suitable ignitors, page 207

Ordering data

Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
Chokes in standard design				
1.76 kg	4 pieces	288 pieces	OFB 250 A021K 230/50 040A076	27002409
1.76 kg	4 pieces	288 pieces	OFB 250 A022K 240/50 040A076	27002410
2.40 kg	4 pieces	216 pieces	OFB 400 A021K 230/50 060A096	27002411
2.42 kg	4 pieces	228 pieces	OFB 400 A021W 230/50 060A096	27002413
2.40 kg	4 pieces	216 pieces	OFB 400 A022K 240/50 060A096	27002412
2.42 kg	4 pieces	228 pieces	OFB 400 A022W 240/50 060A096	27002414
Chokes with multi-voltage connection				
2.04 kg	4 pieces	228 pieces	OFB 250 B024K 220-240/50 050A086	27002338
2.04 kg	4 pieces	228 pieces	OFB 250 B024W 220-240/50 050A086	27002427
2.78 kg	4 pieces	228 pieces	OFB 400 B024K 220-240/50 070A106	27002339
2.78 kg	4 pieces	228 pieces	OFB 400 B024W 220-240/50 070A106	27002428

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal protection	Length L	Fixing dimensions	Core length CL	ΔT	Power consumption	λ	Compensation, parallel (cos φ > 0.9)	
							Hole spacing D1					Capacitor μF ± 10 % 250 V	Mains current
Chokes in standard design													
OFB 250 A021K	250 W	HM/Hi	230 V	50 Hz	no	76 mm	60 – 68 mm	40 mm	75 K	17.4 W	0.54	18 μF	1.25 A
OFB 250 A022K	250 W	HM/Hi	240 V	50 Hz	no	76 mm	60 – 68 mm	40 mm	75 K	18.3 W	0.54	18 μF	1.25 A
OFB 400 A021K	400 W	HM/Hi	230 V	50 Hz	no	96 mm	80 – 88 mm	60 mm	75 K	21.4 W	0.57	25 μF	2.00 A
OFB 400 A021W	400 W	HM/Hi	230 V	50 Hz	yes	104 mm	80 – 88 mm	60 mm	75 K	21.4 W	0.57 / 0.52	25 μF	2.00 A
OFB 400 A022K	400 W	HM/Hi	240 V	50 Hz	no	96 mm	80 – 88 mm	60 mm	75 K	22.6 W	0.57	25 μF	2.00 A
OFB 400 A022W	400 W	HM/Hi	240 V	50 Hz	yes	104 mm	80 – 88 mm	60 mm	75 K	22.6 W	0.57 / 0.52	25 μF	2.00 A
Chokes with multi-voltage connection													
OFB 250 B024K	250 W	HM/Hi	220 / 230 / 240 V	50 Hz	no	94 mm	70 – 78 mm	50 mm	70 K	17.1 W	0.56 / 0.54	18 μF	1.25 A
OFB 250 B024W	250 W	HM/Hi	220 / 230 / 240 V	50 Hz	yes	94 mm	70 – 78 mm	50 mm	70 K	17.1 W	0.56 / 0.54	18 μF	1.25 A
OFB 400 B024K	400 W	HM/Hi	220 / 230 / 240 V	50 Hz	no	114 mm	90 – 98 mm	70 mm	70 K	24.2 W	0.57	25 μF	2.00 A
OFB 400 B024W	400 W	HM/Hi	220 / 230 / 240 V	50 Hz	yes	114 mm	90 – 98 mm	70 mm	70 K	24.2 W	0.57	25 μF	2.00 A



OFBIS 250 W and OFBS 400 W

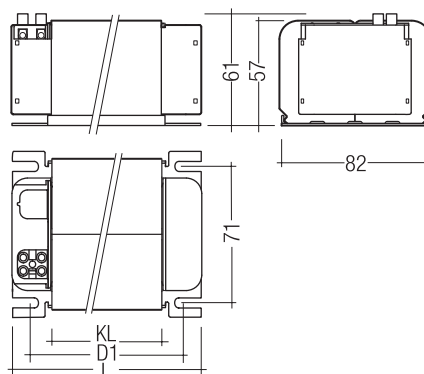
Sodium vapour lamps, metal halide lamps

Product description

- For sodium lamps and metal halide lamps
 - Chokes with reversible thermal cutout: trigger temperature 155 °C
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Max. winding temperature tw	130 °C
Screw terminal	1 – 4 mm ²



Product matrix, page 150

Lamp matrix, page 152

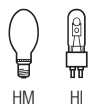
Suitable ignitors, page 207

Ordering data

Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
Chokes in standard design				
2.42 kg	4 pieces	288 pieces	OFBIS 250 A021W 230/50 060A096	27002372
2.42 kg	4 pieces	228 pieces	OFBIS 250 A022W 240/50 060A096	27002426
3.46 kg	4 pieces	288 pieces	OFBS 400 A021W 230/50 090A126	27002383
3.46 kg	4 pieces	228 pieces	OFBS 400 A022W 240/50 090A126	27002425
Chokes with multi-voltage connection				
2.78 kg	4 pieces	228 pieces	OFBIS 250 B024W 220-240/50 070A106	27002340
3.76 kg	4 pieces	192 pieces	OFBS 400 B024W 220-240/50 100A136	27002341

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal protection	Length L	Fixing dimensions	Core length CL	ΔT	Power consumption	λ	Compensation, parallel (cos φ > 0.9)	
							Hole spacing D1					Capacitor μF ± 10 % 250 V	Mains current
Chokes in standard design													
OFBIS 250 A021W	250 W	HS/HI	230 V	50 Hz	yes	96 mm	80–88 mm	60 mm	75 K	22.1 W	0.39	32 μF	1.35 A
OFBIS 250 A022W	250 W	HS/HI	240 V	50 Hz	yes	104 mm	80–88 mm	60 mm	75 K	22.1 W	0.39	32 μF	1.35 A
OFBS 400 A021W	400 W	HS/HI	230 V	50 Hz	yes	126 mm	110–118 mm	90 mm	75 K	29.8 W	0.40	50 μF	1.97 A
OFBS 400 A022W	400 W	HS/HI	240 V	50 Hz	yes	134 mm	110–118 mm	90 mm	75 K	29.8 W	0.40	45 μF	2.10 A
Chokes with multi-voltage connection													
OFBIS 250 B024W	250 W	HS/HI	220/230/240 V	50 Hz	yes	114 mm	90–98 mm	70 mm	65 K	22.4 W	0.42	32 μF	1.35 A
OFBS 400 B024W	400 W	HS/HI	220/230/240 V	50 Hz	yes	144 mm	120–128 mm	100 mm	75 K	32.3 W	0.43	50 μF	1.97 A



OFB 250 – 400 W

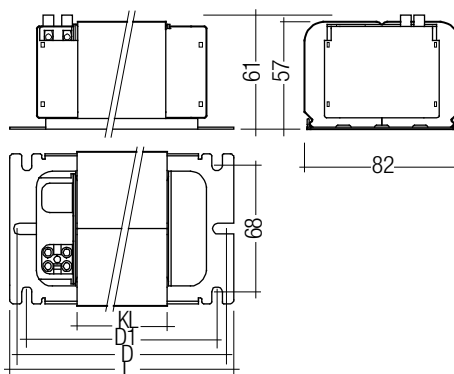
Mercury vapour lamps, metal halide lamps

Product description

- For mercury vapour lamps and metal halide lamps
 - Chokes with reversible thermal cutout: trigger temperature 155 °C
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Max. winding temperature t_w	130 °C
Screw terminal	1 – 4 mm ²



Product matrix, page 150

Lamp matrix, page 152

Suitable ignitors, page 207

Ordering data

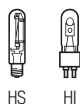
Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
Chokes in standard design				
1.80 kg	4 pieces	288 pieces	OFB 250 A000K 220/50 040A113	27002373
1.80 kg	4 pieces	288 pieces	OFB 250 A001K 230/50 040A113	27002374
1.80 kg	4 pieces	288 pieces	OFB 250 A002K 240/50 040A113	27002375
2.44 kg	4 pieces	288 pieces	OFB 400 A000K 220/50 060A133	27002384
2.44 kg	4 pieces	288 pieces	OFB 400 A001K 230/50 060A133	27002385
2.44 kg	4 pieces	288 pieces	OFB 400 A002K 240/50 060A133	27002386

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal protection	Length L	Fixing dimensions		Core length CL	ΔT	Power consumption	λ	Compensation, parallel ($\cos \phi > 0.9$)	
							Hole spacing D	Hole spacing D1					Capacitor $\mu F \pm 10\%$ 250V	Mains current
Chokes in standard design														
OFB 250 A000K	250 W	HM	220V	50 Hz	no	113 mm	99.8 mm	93.5 mm	40 mm	70 K	17.3 W	0.54	18 μF	1.25 A
OFB 250 A001K	250 W	HM	230V	50 Hz	no	113 mm	99.8 mm	93.5 mm	40 mm	75 K	17.4 W	0.54	18 μF	1.25 A
OFB 250 A002K	250 W	HM	240V	50 Hz	no	113 mm	99.8 mm	93.5 mm	40 mm	75 K	18.3 W	0.54	18 μF	1.25 A
OFB 400 A000K	400 W	HI	220V	50 Hz	no	133 mm	119.8 mm	113.5 mm	60 mm	75 K	17.3 W	0.52	25 μF	2.00 A
OFB 400 A001K	400 W	HM/ HI	230V	50 Hz	no	133 mm	119.8 mm	113.5 mm	60 mm	75 K	21.4 W	0.57 / 0.52	25 μF	2.00 A
OFB 400 A002K	400 W	HM/ HI	240V	50 Hz	no	133 mm	119.8 mm	113.5 mm	60 mm	75 K	22.6 W	0.57 / 0.52	25 μF	2.00 A



Only for standard devices:



OFBIS 250 W and OFBS 400 W

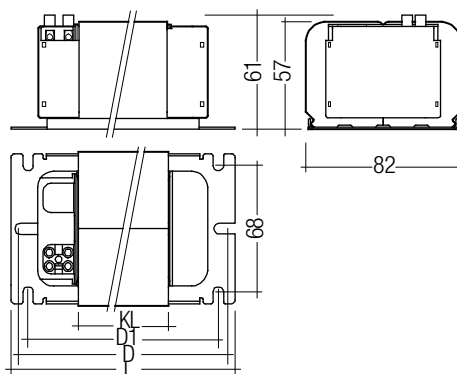
Sodium vapour lamps, metal halide lamps

Product description

- For sodium lamps and metal halide lamps
 - Chokes with reversible thermal cutout: trigger temperature 155 °C
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Max. winding temperature tw	130 °C
Screw terminal	1 – 4 mm ²



Product matrix, page 150

Lamp matrix, page 152

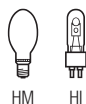
Suitable ignitors, page 207

Ordering data

Weight	Packaging, Packaging, cardboard pallet	Type	Article number
Chokes in standard design			
2.32 kg	4 pieces 288 pieces	OFBIS 250 A001K 230/50 060A133	27002367
2.32 kg	4 pieces 288 pieces	OFBIS 250 A001W 230/50 060A133	27002370
2.32 kg	4 pieces 288 pieces	OFBIS 250 A002K 240/50 060A133	27002368
2.32 kg	4 pieces 288 pieces	OFBIS 250 A002W 240/50 060A133	27002369
3.36 kg	4 pieces 216 pieces	OFBS 400 A001K 230/50 090A163	27002378
3.36 kg	4 pieces 216 pieces	OFBS 400 A001W 230/50 090A163	27002381
3.36 kg	4 pieces 216 pieces	OFBS 400 A002K 240/50 090A163	27002379
3.36 kg	4 pieces 216 pieces	OFBS 400 A002W 240/50 090A163	27002380
Chokes with power tapping			
2.73 kg	4 pieces 288 pieces	OFBS 250/150 A000K 220/50 070A143	27002430
2.73 kg	4 pieces 288 pieces	OFBS 250/150 A000W 220/50 070A143	27002431
3.85 kg	4 pieces 216 pieces	OFBS 400/250 A000K 220/50 100A173	27002433
3.85 kg	4 pieces 216 pieces	OFBS 400/250 A000W 220/50 100A173	27002434
3.87 kg	4 pieces 216 pieces	OFBS 400/250 A002K 240/50 100A173	27002435
Chokes for 60 Hz			
2.43 kg	4 pieces 288 pieces	OFBS 250/150 A005K 220/60 060A113	27002432
3.45 kg	4 pieces 216 pieces	OFBS 400/250 A005K 220/60 090A143	27002444

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal pro- tection	Length L	Fixing dimensions		Core length CL	ΔT	Power consumption	λ	Compensation, parallel (cos $\phi > 0.9$)	
							Hole spacing D	Hole spacing D1					Capacitor $\mu F \pm 10\%$ 250 V	Mains current
Chokes in standard design														
OFBIS 250 A001K	250W	HS/Hi	230V	50Hz	no	133mm	119.8mm	113.5mm	60mm	75K	22.1W	0.40	32 μF	1.35A
OFBIS 250 A001W	250W	HS/Hi	230V	50Hz	yes	133mm	119.8mm	113.5mm	60mm	75K	22.1W	0.40	32 μF	1.35A
OFBIS 250 A002K	250W	HS/Hi	240V	50Hz	no	133mm	119.8mm	113.5mm	60mm	75K	23.4W	0.40	32 μF	1.35A
OFBIS 250 A002W	250W	HS/Hi	240V	50Hz	yes	133mm	119.8mm	113.5mm	60mm	75K	23.4W	0.40	32 μF	1.35A
OFBS 400 A001K	400W	HS/Hi	230V	50Hz	no	163mm	149.8mm	143.5mm	90mm	75K	29.8W	0.43	45 μF	2.10A
OFBS 400 A001W	400W	HS/Hi	230V	50Hz	yes	163mm	149.8mm	143.5mm	90mm	75K	29.8W	0.43	45 μF	2.10A
OFBS 400 A002K	400W	HS/Hi	240V	50Hz	no	163mm	149.8mm	143.5mm	90mm	75K	30.6W	0.43	45 μF	2.10A
OFBS 400 A002W	400W	HS/Hi	240V	50Hz	yes	163mm	149.8mm	143.5mm	90mm	75K	30.6W	0.43	45 μF	2.10A
Chokes with power tapping														
OFBS 250/150 A000K	250/150W	HS	220V	50Hz	no	143mm	129.8mm	123.5mm	70mm	75/40K	25.6/12.0W	0.43/0.41	32 μF	1.35A
OFBS 250/150 A000W	250/150W	HS	220V	50Hz	yes	143mm	129.8mm	123.5mm	70mm	75/40K	25.6/12.0W	0.43/0.41	32 μF	1.35A
OFBS 400/250 A000K	400/250W	HS	220V	50Hz	no	173mm	159.8mm	153.5mm	100mm	70/50K	30.8/21.6W	0.44/0.41	50 μF	1.97A
OFBS 400/250 A000W	400/250W	HS	220V	50Hz	yes	173mm	159.8mm	153.5mm	100mm	70/50K	30.8/21.6W	0.44/0.41	50 μF	1.97A
OFBS 400/250 A002K	400/250W	HS	240V	50Hz	no	173mm	159.8mm	153.5mm	100mm	70/50K	32.2/23.7W	0.41/0.38	50 μF	1.97A
Chokes for 60 Hz														
OFBS 250/150 A005K	250/150W	HS	220V	60Hz	no	113mm	—	93.5mm	60mm	70/40K	22.3/10.8W	0.43/0.43	25 μF	1.35A
OFBS 400/250 A005K	400/250W	HS	220V	60Hz	no	143mm	—	143.5mm	90mm	70/50K	32.7/20.3W	0.44/0.41	45 μF	1.97A



OGL 250 – 1000 W

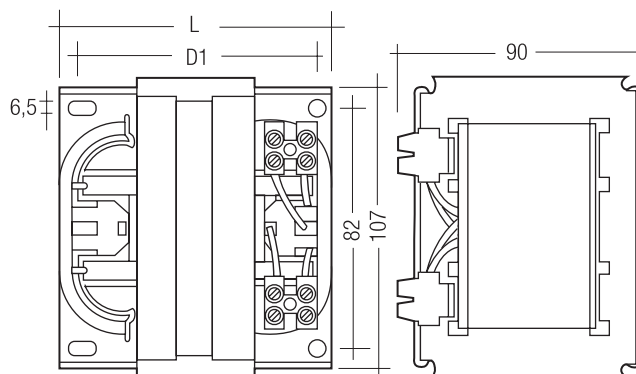
Mercury vapour lamps, metal halide lamps

Product description

- For mercury vapour lamps and metal halide lamps
 - Chokes with reversible thermal cutout: trigger temperature 155 °C
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Max. winding temperature tw	130 °C
Screw terminal	1 – 6 mm ²



→ **Product matrix**, page 150

Lamp matrix, page 152

Suitable ignitors, page 207

Ordering data

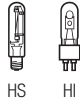
Weight	Packaging, Packaging, cardboard, pallet		Type	Article number
Chokes in standard design				
2.4 kg	6 pieces	216 pieces	OGL 250 W 30 220-240/50 030A084	20296024
3.1 kg	6 pieces	216 pieces	OGL 400 W 40 220-240/50 040A094	20296030
5.4 kg	3 pieces	108 pieces	OGL 700 W 80 220-240/50 080A134	20294541
7.7 kg	2 pieces	72 pieces	OGL 1000 W 120 220-240/50 120B174	20295043

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal protection	Length L	Fixing dimensions	Core length CL	ΔT	Power consumption	λ	Compensation, parallel ($\cos \phi > 0.9$)	
							Hole spacing D1					Capacitor $\mu F \pm 10\%$ 250 V	Mains current
Chokes in standard design													
OGL 250 W 30	250 W	HM / HI	220 / 230 / 240 V	50 Hz	no	84 mm	70 mm	30 mm	65 K	18.6 W	0.55	18 μF	1.25 A
OGL 400 W 40	400 W	HM / HI	220 / 230 / 240 V	50 Hz	no	94 mm	80 mm	40 mm	75 K	25.1 W	0.55	25 μF	2.00 A
OGL 700 W 80	700 W	HM	220 / 230 / 240 V	50 Hz	no	134 mm	120 mm	80 mm	60 K	28.0 W	0.59	40 μF	3.60 A
OGL 1000 W 120	1,000 W	HM / HI	220 / 230 / 240 V	50 Hz	no	174 mm	160 mm	120 mm	70 K	37.0 W	0.61	60 μF	4.60 A



Only for devices with double insulation:



OGLIS 250 – 1000 W and OGLS 400 – 600 W

Sodium vapour lamps, metal halide lamps

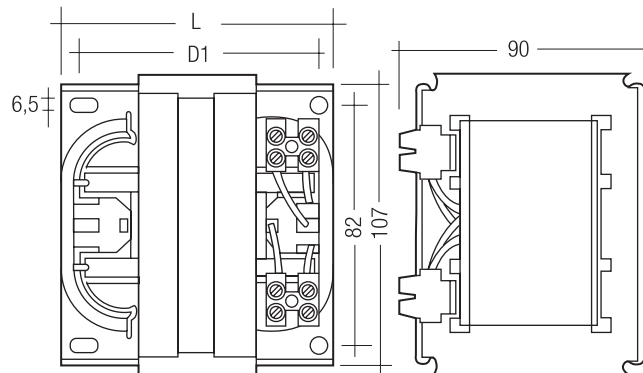
Product description

- For sodium lamps and metal halide lamps
- Chokes with reversible thermal cutout: trigger temperature 155 °C
- Device with double insulation: irreversible thermal cutout, trigger temperature 214 °C

→ For product data sheet go to www.tridonic.com, or available on request

Technical data

Max. winding temperature tw	130 °C
Screw terminal	1 – 4 mm ²



→ **Product matrix**, page 150

Lamp matrix, page 152

Suitable ignitors, page 207

Ordering data

Weight	Packaging, Packaging, cardboard	Packaging, pallet	Type	Article number
Chokes in standard design				
3.1 kg	6 pieces	216 pieces	OGLIS 250W 40 230-250/50 040A094 TP	27002347
4.5 kg	4 pieces	144 pieces	OGLS 400W 60 220-240/50 060A114 TP	27002362
6.7 kg	3 pieces	108 pieces	OGLS 600 W 100 220-240/50 100B154 TP	20882197
9.0 kg	2 pieces	72 pieces	OGLIS 1000 A024W 220-240/50 140A194	22148490
9.0 kg	2 pieces	72 pieces	OGLIS 1000 A024W 220-240/50 140A194	27002350
Chokes with double insulation				
3.2 kg	6 pieces	216 pieces	OGLIS 250 C203D 230-250/50 040A094	22149035
4.2 kg	4 pieces	144 pieces	OGLS 400 C203D 230-250/50 060A114	22149038
Chokes with pulser tapping				
3.1 kg	6 pieces	216 pieces	OGLIS 250 PC023W 230/240/50 040A094	22149231
11.6 kg	2 pieces	72 pieces	OGLIS 1000 PC023W 230/240/50 180B234	22148485
Chokes for 60 Hz				
4.2 kg	4 pieces	144 pieces	OGLS 400 W 60 220-240/60 060A114	20565518
5.4 kg	3 pieces	108 pieces	OGLS 600 W 80 220-240/60 080A134	20821091
9.0 kg	2 pieces	72 pieces	OGLIS 1000 W 140 220-240/60 140B194	20880891

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal protection	Length L	Fixing dimensions Hole spacing D1	Core length CL	ΔT	Power consumption	λ	Compensation, parallel (cos φ > 0.9)	
												Capacitor μF ± 10 % 250 V	Mains current
Chokes in standard design													
OGLIS 250W 40	250 W	HS/HS	230/240/250 V	50 Hz	yes	94 mm	80 mm	40 mm	70 K	25.5 W	0.39	32 μF	1.35 A
OGLS 400W 60	400 W	HS/HS	220/230/240 V	50 Hz	yes	114 mm	100 mm	60 mm	70 K	30.0 W	0.41	50 μF	1.97 A
OGLS 600 W 100	600 W	HS	220/230/240 V	50 Hz	yes	154 mm	140 mm	100 mm	65 K	35.0 W	0.43	60 μF	3.10 A
OGLIS 1000 A024W	1,000 W	HS/HS	220/230/240 V	50 Hz	yes	194 mm	180 mm	140 mm	75 K	72.0 W	0.45	85 μF	5.10 A
OGLIS 1000 A024W	1,000 W	HS/HS	220/230/240 V	50 Hz	yes	194 mm	180 mm	140 mm	75 K	72.0 W	0.45	100 μF	5.10 A
Chokes with double insulation													
OGLIS 250 C203D	250 W	HS/HS	230/240/250 V	50 Hz	yes	94 mm	80 mm	40 mm	70 K	25.5 W	0.39	32 μF	1.35 A
OGLS 400 C203D	400 W	HS/HS	230/240/250 V	50 Hz	yes	114 mm	100 mm	60 mm	80 K	34.0 W	0.37	50 μF	1.97 A
Chokes with pulser tapping													
OGLIS 250 PC023W	250 W	HS/HS	230/240 V	50 Hz	yes	94 mm	80 mm	40 mm	80 K	27.4 W	0.39	32 μF	1.35 A
OGLIS 1000 PC023W	1,000 W	HS/HS	230/240 V	50 Hz	yes	234 mm	220 mm	180 mm	60 K	51.0 W	0.43	100 μF	5.10 A
Chokes for 60 Hz													
OGLS 400 W 60	400 W	HS/HS	220/230/240 V	60 Hz	no	114 mm	100 mm	60 mm	60 K	30.4 W	0.42	50 μF	1.97 A
OGLS 600 W 80	600 W	HS	220/230/240 V	60 Hz	no	134 mm	120 mm	80 mm	60 K	34.3 W	0.42	60 μF	3.10 A
OGLIS 1000 W 140	1,000 W	HS/HS	220/230/240 V	60 Hz	no	194 mm	180 mm	140 mm	70 K	70.0 W	0.43	100 μF	5.10 A

**OGLI 2000 W**

Metal halide lamps

Product description

- For metal halide lamps
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

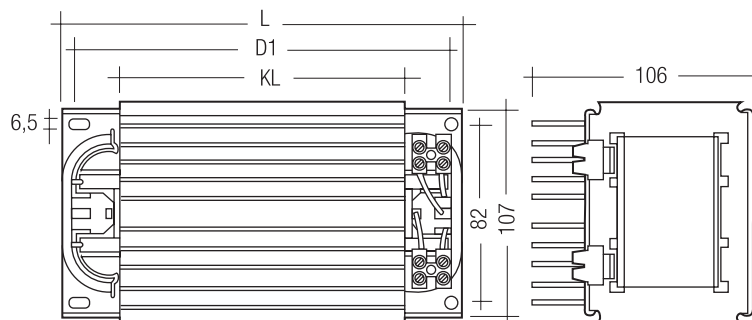
Max. winding temperature tw	130 °C
Screw terminal	1 – 6 mm ²



Product matrix, page 150

Lamp matrix, page 152

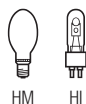
Suitable ignitors, page 207

**Ordering data**

Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
Chokes in standard design				
8.0 kg	2 pieces	72 pieces	OGLI 2000 W 160 380-415/50 160B214	20295037
11.6 kg	2 pieces	72 pieces	OGLI 2000 W 180 380-415/50 180B234	20566616
13.1 kg	2 pieces	72 pieces	OGLI 2000 W 210 380-420/50 210B268HL	20882285
Chokes with pulser tapping				
13.6 kg	28 pieces	56 pieces	OGLI 2000 W PC026K 380/400/50 210B268HL	22175007
13.6 kg	28 pieces	56 pieces	OGLI 2000 W PC027K 360-400/50 210B268VGH	22175009
Chokes for 60 Hz				
11.6 kg	2 pieces	72 pieces	OGLI 2000 W 180 380-415/60 180B234VG	20563406

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal protection	Length L	Fixing dimensions	Core length CL	ΔT	Power consumption	λ	Compensation, parallel (cos φ > 0.9)	
							Hole spacing D1					Capacitor μF ± 10 % 250 V	Mains current
Chokes in standard design													
OGLI 2000 W 160	2,000 W	HI	380/400/415 V	50 Hz	no	214 mm	200 mm	160 mm	80 K	75 W	0.59	37 μF	6 A
OGLI 2000 W 180	2,000 W	HI	380/400/415 V	50 Hz	no	234 mm	220 mm	180 mm	80 K	100 W	0.51	60 μF	6 A
OGLI 2000 W 210	2,000 W	HI	380/400/415 V	50 Hz	no	268 mm	254 mm	210 mm	90 K	105 W	0.56	60 μF	6 A
Chokes with pulser tapping													
OGLI 2000 W PC026K	2,000 W	HI	380/400 V	50 Hz	no	268 mm	254 mm	210 mm	85 K	80 W	0.47	37 μF	6 A
OGLI 2000 W PC027K	2,000 W	HI	360/380/400 V	50 Hz	no	268 mm	254 mm	210 mm	90 K	80 W	0.63	37 μF	6 A
Chokes for 60 Hz													
OGLI 2000 W 180	2,000 W	HI	380/400/415 V	60 Hz	no	234 mm	220 mm	180 mm	70 K	86 W	0.53	60 μF	6 A



OGL 400 W

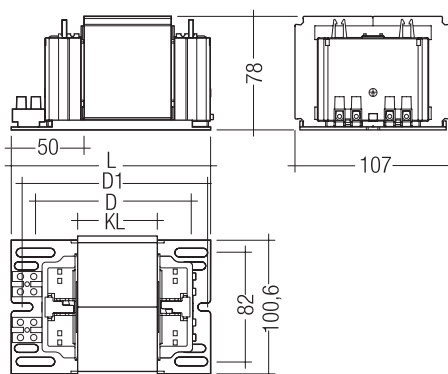
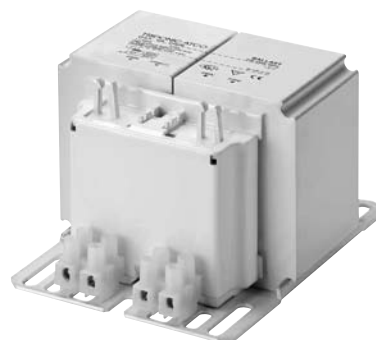
Mercury vapour lamps, metal halide lamps

Product description

- For mercury vapour lamps and metal halide lamps
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Max. winding temperature t_w	130 °C
Screw terminal	1 – 6 mm ²



Product matrix, page 150

Lamp matrix, page 152

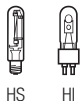
Suitable ignitors, page 207

Ordering data

Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
Chokes in standard design				
3.1 kg	2 pieces	168 pieces	OGL 400 C044K 220-240/50 040V130PL	89121845

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal protection	Length L	Fixing dimensions		Core length CL	ΔT	Power consumption	λ	Compensation, parallel ($\cos \phi > 0.9$)	
							Hole spacing D	Hole spacing D1					Capacitor $\mu F \pm 10\%$ 250V	Mains current
Chokes in standard design														
OGL 400 C044K	400 W	HM/Hi	220/230/240 V	50 Hz	no	130 mm	110.5–124 mm	76.5–118 mm	40 mm	75 K	25.1 W	0.57	25 μF	2 A



OGLS 250 – 600 W and OGLIS 250 W

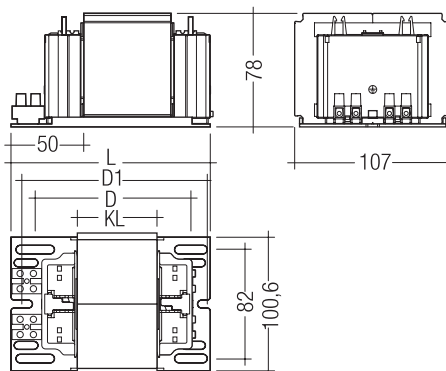
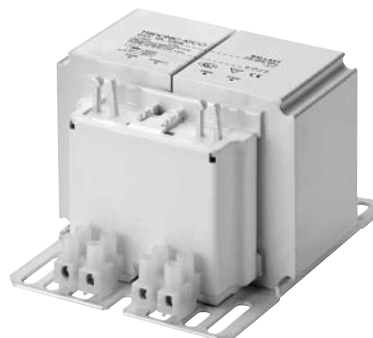
Sodium vapour lamps, metal halide lamps

Product description

- For sodium lamps and metal halide lamps
 - Chokes with reversible thermal cutout: trigger temperature 155 °C
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Max. winding temperature tw	130 °C
Screw terminal	1 – 6 mm ²



Product matrix, page 150

Lamp matrix, page 152

Suitable ignitors, page 207

Ordering data

Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
Chokes in standard design				
3.1 kg	2 pieces	214 pieces	OGLS 250 C044W 220-240/50 040V130PL	89121836
4.5 kg	2 pieces	84 pieces	OGLS 400 C044W 220-240/50 060V150	89121840
5.4 kg	1 pieces	84 pieces	OGLS 600 A046W 380-415/50 080V170	89121976
Chokes with power tapping				
4.5 kg	2 pieces	168 pieces	OGLS 250/150 C043W 230/240/50 060V150	89121864
5.4 kg	1 pieces	84 pieces	OGLS 400/250 W C043W 230/240/50 080V170	89121865
Chokes with pulser tapping				
3.5 kg	1 pieces	84 pieces	OGLI 400 PC043W 230/240/50 050V140	89121866
4.5 kg	1 pieces	84 pieces	OGLS 400 PC043W 230/240/50 060V150HL	89121873

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal protection	Length L	Fixing dimensions		Core length CL	Δ T	Power consumption	λ
							Hole spacing D	Hole spacing D1				
Chokes in standard design												
OGLS 250 C044W	250 W	HS/Hi	220/230/240 V	50 Hz	yes	130 mm	110.5–124 mm	76.5–118 mm	40 mm	70 K	25.5 W	0.39
OGLS 400 C044W	400 W	HS/Hi	220/230/240 V	50 Hz	yes	150 mm	130.5–144 mm	96.5–138 mm	60 mm	70 K	30.0 W	0.41
OGLS 600 A046W	600 W	HS	380/400/415 V	50 Hz	yes	170 mm	150.5–164 mm	116.5–158 mm	80 mm	75 K	35.0 W	0.47
Chokes with power tapping												
OGLS 250/150 C043W	250/150 W	HS	230/240 V	50 Hz	yes	150 mm	130.5–144 mm	96.5–138 mm	60 mm	65/45 K	19.1 W	0.37/0.41
OGLS 400/250 W C043W	400/250 W	HS	230/240 V	50 Hz	yes	170 mm	116.5–158 mm	150.5–164 mm	80 mm	65/45 K	31.9/19.1 W	0.38/0.36
Chokes with pulser tapping												
OGLI 400 PC043W	400 W	Hi	230/240 V	50 Hz	yes	140 mm	120.5–134 mm	86.5–128 mm	50 mm	65 K	25.0 W	0.46
OGLS 400 PC043W	400 W	HS	230/240 V	50 Hz	yes	150 mm	130.5–144 mm	96.5–138 mm	60 mm	70 K	30.0 W	0.41



ECM 50 – 80

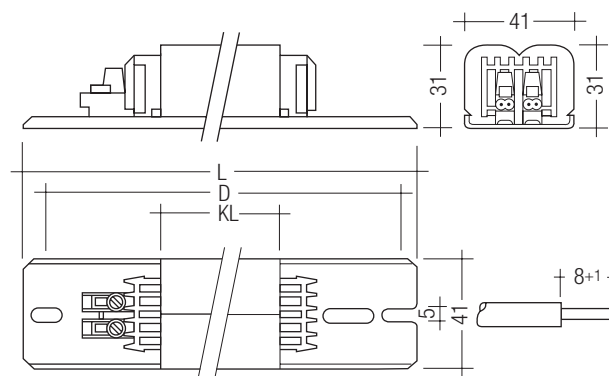
Mercury vapour lamps

Product description

- For mercury vapour lamps
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Max. winding temperature t_w	130 °C
Plug terminal	0.5 – 1.5 mm ²



Product matrix, page 150

Lamp matrix, page 152

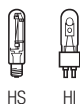
Suitable ignitors, page 207

Ordering data

Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
Chokes in standard design				
0.85 kg	15 pieces	630 pieces	ECM 50 A90 230/50 090A165	20569741
1.30 kg	5 pieces strapped	600 pieces	ECM 80 A140 230/50 140A231	22175043

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal protection	Length L	Fixing dimensions	Core length CL	ΔT	Power consumption	λ	Compensation, parallel ($\cos \phi > 0.9$)	
							Hole spacing D					Capacitor $\mu F \pm 10\%$ 250 V	Mains current
Chokes in standard design													
ECM 50 A90	50 W	HM	230 V	50 Hz	no	165 mm	144 – 158 mm	90 mm	60 K	11.4 W	0.45	7 μF	0.27 A
ECM 80 A140	80 W	HM	230 V	50 Hz	no	231 mm	210 – 224 mm	140 mm	50 K	13.1 W	0.51	8 μF	0.43 A

**ECIS 35 – 150**

Sodium vapour lamps, metal halide lamps

Product description

- For sodium lamps and metal halide lamps
 - Chokes with reversible thermal cutout: trigger temperature 155 °C
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

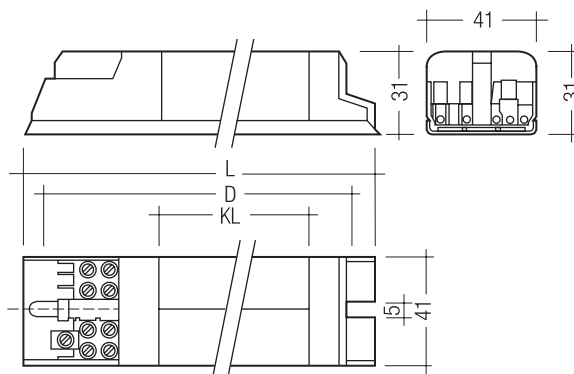
Max. winding temperature tw	130 °C
Screw terminal	0.75 – 1.5 mm ²



Product matrix, page 150

Lamp matrix, page 152

Suitable ignitors, page 207

**Ordering data**

Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
Chokes in standard design				
0.85 kg	15 pieces	630 pieces	ECIS 35 C90 230-250/50 090B165 TP	20566187
1.30 kg	15 pieces	630 pieces	ECIS 70 A140 230-250/50 140B215 TP	20566335
1.30 kg	15 pieces	630 pieces	ECIS 150 1/2 C140 230-250/50 140B215 TP	20566329

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Thermal protection	Length L	Fixing dimensions Hole spacing D	Core length CL	Δ T	Power consumption	λ	Compensation, parallel (cos ϕ > 0.9) Capacitor μF ± 10 % 250 V Mains current	
Chokes in standard design													
ECIS 35 C90	35 W	HS/Hi	230 /240 /250 V	50 Hz	yes	165 mm	144 – 158 mm	90 mm	55 K	12 W	0.40	6 μF	0.22 A
ECIS 70 A140	70 W	HS/Hi	230 /240 /250 V	50 Hz	yes	215 mm	194 – 208 mm	140 mm	75 K	21 W	0.35	12 μF	0.38 A
ECIS 150 1/2 C140 ^①	150 W	HS/Hi	230 /240 /250 V	50 Hz	yes	215 mm	194 – 208 mm	140 mm	65 K	25 W	0.43	20 μF	0.80 A

^① To operate 150 W lamps use 2 x ECIS 150 1/2



ECF 8 – 32

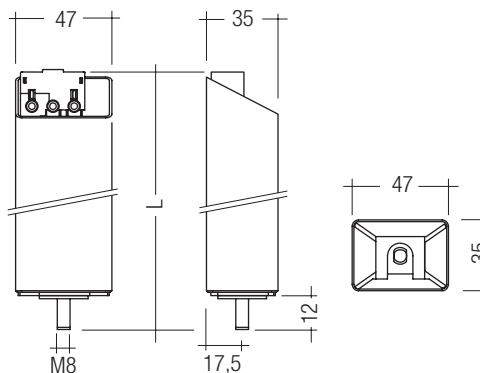
EC design

Product description

- Choke
 - For systems with carrier frequency controllers
 - Chokes with irreversible thermal cutout: trigger temperature 115 °C
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Cutoff frequency	> 485
Plug terminal	0.5 – 1.5 mm ²



Product matrix, page 150

Ordering data

Type	Article number
Choke with double insulation	
ECF 8/485 A201B 230/240/50 ZIMP 87	22175046
ECF 10/485 A201B 230/240/50 ZIMP 87	22175074
ECF 12/485 A201B 230/240/50 ZIMP 87	22175047
ECF 20/485 A201B 230/240/50 ZIMP 87	22149227
ECF 32/485 A201B 230/240/50 ZIMP 113	22175048

Specific technical data

Type	Length L	Standard pack	
		Packaging, cardboard	Packaging, pallet
Choke with double insulation			
ECF 8/485 A201B 230/240/50 ZIMP 87	87 mm	44 pieces	1,188 pieces
ECF 10/485 A201B 230/240/50 ZIMP 87	87 mm	44 pieces	1,188 pieces
ECF 12/485 A201B 230/240/50 ZIMP 87	87 mm	44 pieces	1,188 pieces
ECF 20/485 A201B 230/240/50 ZIMP 87	87 mm	44 pieces	1,188 pieces
ECF 32/485 A201B 230/240/50 ZIMP 113	113 mm	36 pieces	972 pieces



ECF 8 – 60

EC design

Product description

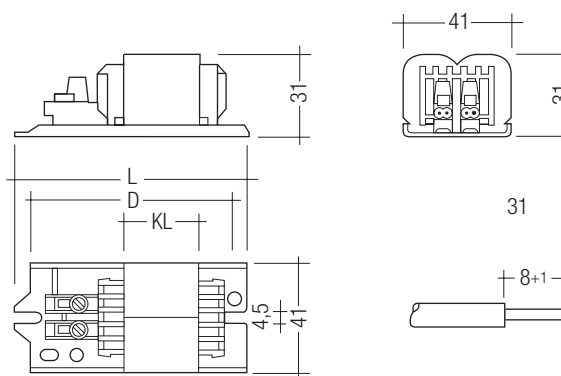
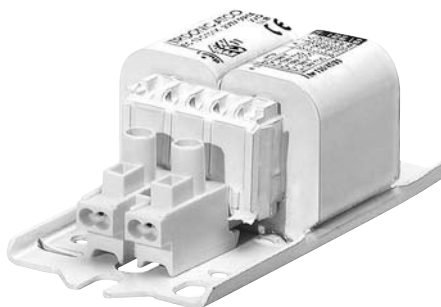
- Choke
 - For systems with carrier frequency controllers
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Cutoff frequency	> 485 Hz
Plug terminal	0.5 – 1.5 mm ²



Product matrix, page 150



Ordering data

Type	Article number
Standard choke	
ECF 8/485 A27 230/240/50 027A084	20560466
ECF 10/485 A27 230/240/50 027A084	20560494
ECF 12/485 A27 230/240/50 027A084	20566527
ECF 20/485 A27 230/240/50 027A084	20566549
ECF 25/485 A27 230/240/50 027A084	20825183
ECF 32/485 A27 230/240/50 027A084	20825199
ECF 45/485 A50 230/240/50 050A110	20820349
ECF 60/485 A50 230/240/50 050A151	20566568

Specific technical data

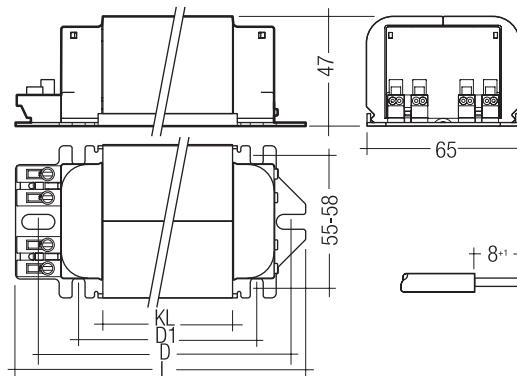
Type	Length L	Hole spacing D	Standard pack	
			Packaging, cardboard	Packaging, pallet
Standard choke				
ECF 8/485 A27 230/240/50 027A084	84.5 mm	77 mm	55 pieces	1,980 pieces
ECF 10/485 A27 230/240/50 027A084	84.5 mm	77 mm	55 pieces	1,980 pieces
ECF 12/485 A27 230/240/50 027A084	84.5 mm	77 mm	55 pieces	1,980 pieces
ECF 20/485 A27 230/240/50 027A084	84.5 mm	77 mm	55 pieces	1,980 pieces
ECF 25/485 A27 230/240/50 027A084	84.5 mm	77 mm	55 pieces	1,980 pieces
ECF 32/485 A27 230/240/50 027A084	84.5 mm	77 mm	55 pieces	1,980 pieces
ECF 45/485 A50 230/240/50 050A110	110.0 mm	100 – 104 mm	36 pieces	1,296 pieces
ECF 60/485 A50 230/240/50 050A151	151.0 mm	130 – 144 mm	36 pieces	1,296 pieces



OMF 37 – 60
OM design

Product description

- Choke
 - For systems with carrier frequency controllers
 - For protection class 1
- For product data sheet go to www.tridonic.com, or available on request



Product matrix, page 150

Ordering data

Type	Article number
Protection class I	
OMF 37/485 400/50 055A125T	22175055
OMF 60/485 400/50 055A125T	20568154

Specific technical data

Type	Length L	Hole spacing D	Standard pack	
			Packaging, cardboard	Packaging, pallet
Protection class I				
OMF 37/485 400/50 055A125T	125 mm	109.5 mm	10 pieces	480 pieces
OMF 60/485 400/50 055A125T	125 mm	109.5 mm	10 pieces	480 pieces



OM PAK 35 – 150 W

Standard version

Product description

- Series OM choke
 - Also suitable for high ambient temperatures up to 65 °C
 - Integrated standard superimposed-pulse ignitor ZRM 2.5 ES/C
 - Temperature-protected
 - Low-loss
 - With F label for mounting on normally flammable materials
 - Simple connection of all cables in a generously sized connection compartment; no tools required
- For product data sheet go to www.tridonic.com, or available on request

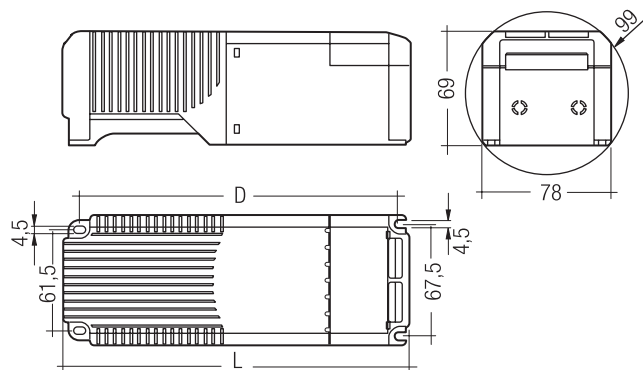
Technical data

Ignitor	ZRM 2,5-ES/C
Max. cable length to lamp (75 pF/m)	1.5 m



Product matrix, page 150

Lamp matrix, page 152



Ordering data

Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
1.4 kg	1 pieces	135 pieces	OM PAK 35 M B113 230/240V 50Hz	22116414
1.8 kg	1 pieces	135 pieces	OM PAK 70 M B113 230/240V 50Hz	20889779
3.0 kg	1 pieces	108 pieces	OM PAK 150 M B113 230/240V 50Hz	22115639

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Length L	Hole spacing D	Ambient temperature t_a	Power consumption	Mains current	λ
OM PAK 35 M B113	35 W	HI	230 / 240 V	50 Hz	210 mm	193.5 mm	65 °C	8.6 W	0.22 A	0.95
OM PAK 70 M B113	70 W	HI	230 / 240 V	50 Hz	210 mm	193.5 mm	55 °C	15.7 W	0.43 A	0.95
OM PAK 150 M B113	150 W	HS / HI	230 / 240 V	50 Hz	260 mm	243.5 mm	50 °C	24.0 W	0.76 A	



OM PAK 35 – 150 W

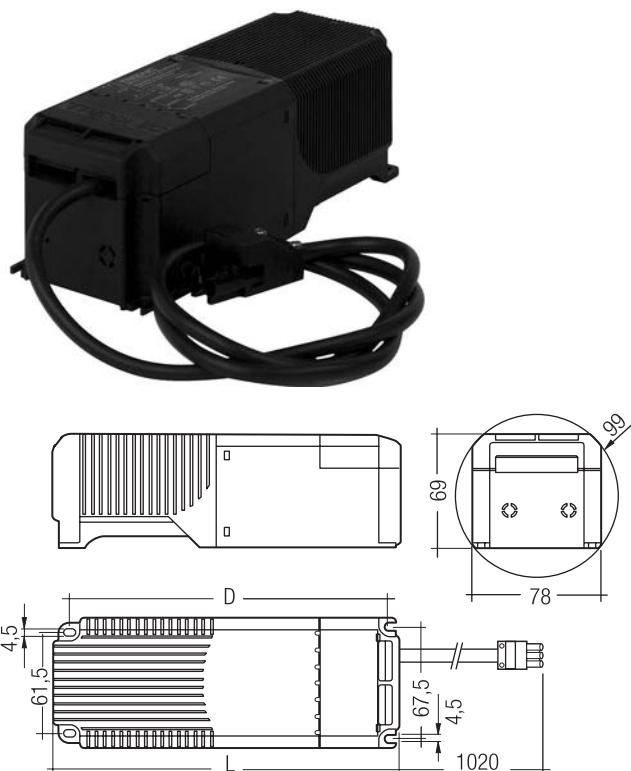
Standard version with lamp cable

Product description

- Series OM choke
 - Also suitable for high ambient temperatures up to 65 °C
 - Rapid lamp starting and restarting thanks to integrated standard superimposed-pulse ignitor ZRM 2.5 ES/C
 - Temperature-protected
 - Low-loss
 - With F label for mounting on normally flammable materials
 - Simple connection of all cables in a generously sized connection compartment; no tools required
 - Halogen-free three-core lamp cable, length 1.0 m
 - With fitted ST-18 socket
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Ignitor	ZRM 2,5-ES/C
Max. cable length to lamp (75 pF/m)	1.5 m



Ordering data

Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
1.4 kg	1 pieces	84 pieces	OM PAK 35 M B513 230-250V 50Hz 1200	22116515
1.8 kg	1 pieces	84 pieces	OM PAK 70 M B513 230-250V 50Hz 1200	22116537
3.0 kg	1 pieces	75 pieces	OM PAK 150 M B513 230-250V 50Hz 1200	22116562

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Length L	Hole spacing D	Ambient temperature t_a	Power consumption	Mains current	λ
OM PAK 35 M B513	35 W	HI	230 / 240 / 250 V	50 Hz	210 mm	193.5 mm	65 °C	8.6 W	0.22 A	0.95
OM PAK 70 M B513	70 W	HI	230 / 240 / 250 V	50 Hz	210 mm	193.5 mm	55 °C	15.7 W	0.38 A	0.95
OM PAK 150 M B513	150 W	HS / HI	230 / 240 / 250 V	50 Hz	260 mm	243.5 mm	50 °C	23.2 W	0.76 A	



OM PAK 35 – 150 W

Digital ignitor with timer

Product description

- Series OM choke
- Also suitable for high ambient temperatures up to 65 °C
- Rapid lamp starting and restarting thanks to integrated digital superimposed-pulse ignitor ZRM 2.5 ES/CT
- Automatic shutdown for a faulty lamp
- Temperature-protected
- Low-loss
- With F label for mounting on normally flammable materials
- Simple connection of all cables in a generously sized connection compartment; no tools required

→ For product data sheet go to www.tridonic.com,
or available on request

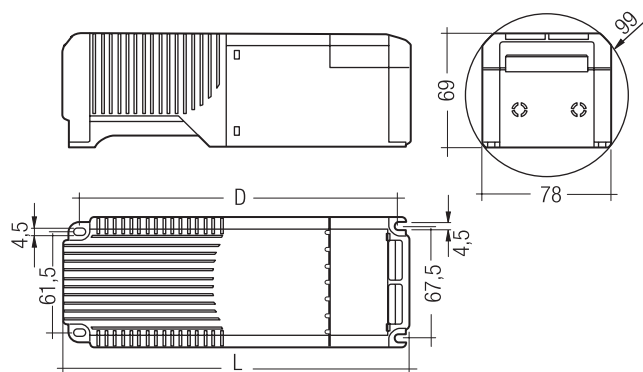
Technical data

Ignitor	ZRM 2,5-ES/CT
Max. cable length to lamp (75 pF/m)	1.5 m



Product matrix, page 150

Lamp matrix, page 152



Ordering data

Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
1.4 kg	1 pieces	135 pieces	OM PAK 35 M B133 230/240V 50Hz	20889876
1.8 kg	1 pieces	135 pieces	OM PAK 70 M B133 230/240V 50Hz	22115608
3.0 kg	1 pieces	108 pieces	OM PAK 150 M B133 230/240V 50Hz	22115645

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Length L	Hole spacing D	Ambient temperature t_a	Power consumption	Mains current	λ
OM PAK 35 M B133	35 W	HI	230 / 240 V	50 Hz	210 mm	193.5 mm	65 °C	8.6 W	0.22 A	0.95
OM PAK 70 M B133	70 W	HI	230 / 240 V	50 Hz	210 mm	193.5 mm	55 °C	15.7 W	0.43 A	0.95
OM PAK 150 M B133	150 W	HS / HI	230 / 240 V	50 Hz	260 mm	243.5 mm	50 °C	24.0 W	0.76 A	

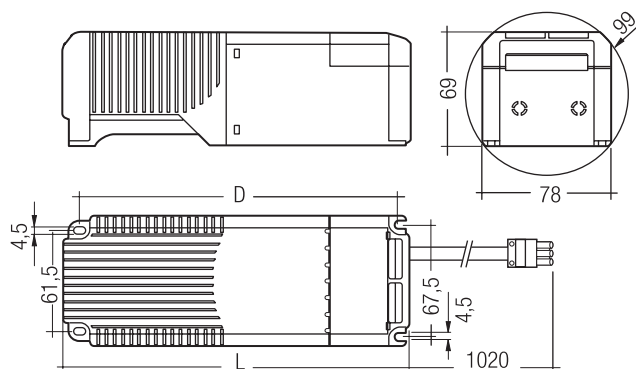


OM PAK 35 – 150 W

Digital ignitor and lamp cable

Product description

- Series OM choke
 - Also suitable for high ambient temperatures up to 65 °C
 - Rapid lamp starting and restarting thanks to integrated digital superimposed-pulse ignitor ZRM 2.5 ES/CT
 - Automatic shutdown for a faulty lamp
 - Temperature-protected
 - Low-loss
 - With F label for mounting on normally flammable materials
 - Simple connection of all cables in a generously sized connection compartment; no tools required
 - Halogen-free three-core lamp cable, length 1.0 m
 - With fitted ST-18 socket
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Ignitor	ZRM 2,5-ES/CT
Max. cable length to lamp (75 pF/m)	1.5 m



Product matrix, page 150

Lamp matrix, page 152

Ordering data

Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
1.4 kg	1 pieces	84 pieces	OM PAK 35 M B533 230-250V 50Hz 1200	22116506
1.8 kg	1 pieces	84 pieces	OM PAK 70 M B533 230-250V 50Hz 1200	22116521
3.0 kg	1 pieces	75 pieces	OM PAK 150 M B533 230-250V 50Hz 1200	22116559

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Length L	Hole spacing D	Ambient temperature t_a	Power consumption	Mains current	λ
OM PAK 35 M B533	35 W	HI	230 / 240 / 250 V	50 Hz	210 mm	193.5 mm	65 °C	8.6 W	0.22 A	0.95
OM PAK 70 M B533	70 W	HI	230 / 240 / 250 V	50 Hz	210 mm	193.5 mm	55 °C	15.7 W	0.38 A	0.95
OM PAK 150 M B533	150 W	HS / HI	230 / 240 / 250 V	50 Hz	260 mm	243.5 mm	50 °C	23.2 W	0.76 A	



OM PAK 70 – 150 W PowerPulse

Product description

- Series OM choke
 - Also suitable for high ambient temperatures up to 50 °C
 - Specially developed for long cable lengths to the lamp
 - Rapid lamp starting and restarting thanks to integrated digital superimposed-pulse ignitor ZRM 4000 powerPULSE
 - Automatic shutdown for a faulty lamp
 - Temperature-protected
 - Low-loss
 - Extremely quiet
 - With F label for mounting on normally flammable materials
 - Simple connection of all cables in a generously sized connection compartment; no tools required
- For product data sheet go to www.tridonic.com, or available on request

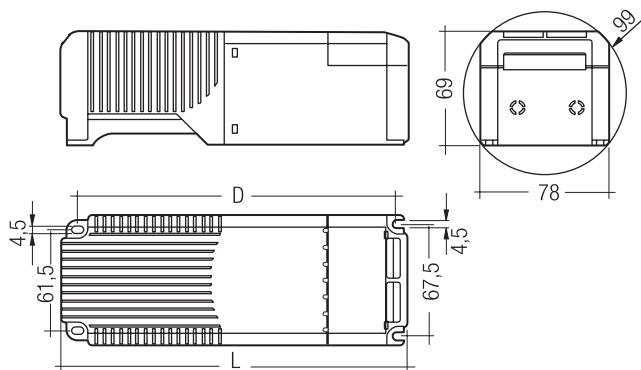
Technical data

Ignitor	ZRM 4000 powerPULSE
Max. cable length to lamp (75 pF/m)	40 m



Product matrix, page 150

Lamp matrix, page 152



Ordering data

Weight	Packaging, cardboard	Packaging, pallet	Type	Article number
1.8 kg	1 pieces	135 pieces	OM PAK 70 M B183 230/240V 50Hz	22149282
2.6 kg	1 pieces	108 pieces	OM PAK 150 M B183 230/240V 50Hz	22149283

Specific technical data

Type	Lamp wattage	Lamp type	Voltage	Mains frequency	Length L	Hole spacing D	Ambient temperature t_a	Power consumption	Mains current	λ
OM PAK 70 M B183	70 W	HI	230 / 240 V	50 Hz	210 mm	193.5 mm	50 °C	15.7 W	0.38 A	0.95
OM PAK 150 M B183	150 W	HS / HI	230 / 240 V	50 Hz	260 mm	243.5 mm	50 °C	22.0 W	0.76 A	0.95

Overview Page 206

Product overview Page 206

Ignitor matrix Page 207

Standards Page 208

Product information Page 209

Ignitors and power switches for HID Page 209

Superimposed-pulse ignitors

Capacity range 35 – 400 W

Standard ignitors from ZRM 2-ES/C to ZRM 4.5-ES/C Page 212

Digital ignitors from ZRM 2-ES/CT to ZRM 4.5-ES/CT Page 212

Capacity range 35 – 400 / 750 W

Standard ignitor ZRM 6-ES/C Page 214

Digital ignitor ZRM 6-ES/CT Page 214

Standard ignitor ZRM 6-ES/C 400 Page 214

Standard ignitor ZRM 6-ES/C 3.5 kV Page 214

Capacity range 250 – 2,000 W

Standard ignitor ZRM 12-ES/C Page 216

Digital ignitor ZRM 12-ES/CT Page 216

Standard ignitor ZRM 12-ES/C 400 Page 216

Capacity range 1,000 – 3,500 W

Standard ignitor ZRM 20-ES/B Page 218

Standard ignitor ZRM 20-ES/B 400 Page 218

Pulse ignitors

Digital

ZRM 4000 powerPULSE Page 219

ZRM 4000/400 powerPULSE Page 219

Standard

ZRM 2300 C201 Page 220

ZRM 4000 C201 Page 220

ZRM 4000 B101 Page 220

Parallel

ZRM 1000 A004 Page 221

ZRM 1200/400 A001 Page 222

Ignitors with additional impedance

High-pressure mercury vapour lamp conversion kits ZRM A201W Page 223

High-pressure mercury vapour lamp conversion kits ZRM B201W Page 224

Power changeover switches

ZRM U6L Page 225

ZRM U6L-T Page 225

ZRM U6M Page 226

Ignition time bridging

LRM 500 S Page 227

Accessories

ZRM ES/C terminal cover Page 228

Wiring diagrams and installation examples Page 229

Product type overview



Superimposed-pulse ignitors

Series: ZRM ES/C, ZRM ES/CT, ZRM ES/B

- Standard superimposed-pulse ignitors
- Digital superimposed-pulse ignitors with automatic disconnection circuit and pulse-pause ignition
- For the following wattage ranges:
HI 35–3,500 W
HS 35–1,000 W



Pulse ignitors

Series: ZRM 4000, ZRM powerPULSE, ZRM 1000

- Pulse ignitors for tapped chokes
- Parallel pulser for an ignition voltage < 1,000 V
- Digital ZRM powerPULSE system with regulated ignition voltage and pulse-pause ignition



Ignitors with additional impedance

Series: ZRM A201W, B201W

Kits for upgrading from mercury to sodium vapour lamps:

- Integrated reversible thermal controller
- Premounted connecting cable
- Protection class 2 compatible
- Integrated digital superimposed-pulse ignitor with automatic disconnection
- Pulse-pause ignition: shorter reignition times, minimum downtime
- Suppression of the cycling effect with 3-start counter
- Automatic reset (< 1 s)



Power changeover switches

Series: ZRM U6M, ZRM U6L

Energy savings in street lighting:

- Reduction in luminous flux by switching to a lower power level
- Maintenance-free, independent and no-complication control system

Ignitor matrix

		Standard superimposed-pulse ignitors										Digital superimposed-pulse ignitors with switch-off function						Pulse ignitors					
		ZRM 2-ES/C	ZRM 2.5-ES/C	ZRM 4.5-ES/C	ZRM 6-ES/C	ZRM 6-ES/C 400	ZRM 6-ES/C 3.5kV	ZRM 12-ES/C	ZRM 12-ES/C 400	ZRM 20-ES/B	ZRM 20-ES/B 400	ZRM 2-ES/CT	ZRM 2.5-ES/CT	ZRM 4.5-ES/CT	ZRM 6-ES/CT	ZRM 12-ES/CT	ZRM 4000 powerPULSE	ZRM 4000/400 powerPULSE	ZRM 2300 C201	ZRM 4000 C201	ZRM 4000 B101	ZRM 1000 A004	ZRM 1200/400 A001
Ignition voltage max. kV _p		2.5	5.0	5.0	5.0	5.0	4.0	5.0	5.0	5.0	5.0	2.5	5.0	5.0	5.0	5.0	4.1	4.1	2.3	4.5	4.5	0.90	1.4
Lamp current I _{max} A		1.0	3.0	4.6	5.0	6.0	5.0	12.0	12.7	20.0	20.0	1.0	3.0	4.6	5.0	12.0	–	–	–	–	–	–	–
Metal halide lamps (HI)	35 W		•	◦ ⁶	◦			◦					•	◦ ⁶	◦	◦	•			•			
	70 W	• ¹	•	• ⁶	◦			◦				• ¹	•	• ⁶	◦	◦	•		• ¹	•			
	100 W		•	• ⁶	◦			◦					•	• ⁶	◦	◦	•			•			
	150 W	• ¹	•	• ⁶	◦			◦				• ¹	•	• ⁶	◦	◦	•		• ¹	•			
	250 W		•	• ⁶	◦			◦					•	• ⁶	◦	◦	•			•		• ³	
	400 W			• ⁶	•			◦						• ⁶	•	◦	•			•		• ³	◦
	1,000 W							•		◦						•	•		•		• ³	◦	
	1,800 W								• ⁴	• ⁵							• ⁴	• ⁵					
	2,000 W								•	•	◦							•					◦
	3,500 W										•												◦
High-pressure sodium lamps (HS)	35 W	•										•											
	50 W	•										•							•				
	70 W	• ¹	• ²	◦ ⁶								• ¹	•	◦ ⁶			•		• ¹				
	100 W		•	• ⁶	◦								•	• ⁶	◦	◦	•			•	•		
	150 W		•	• ⁶	◦								•	• ⁶	◦	◦	•			•	•		
	250 W		•	• ⁶	◦								•	• ⁶	◦	◦	•			•	•		
	400 W			• ⁶	•									• ⁶	•	◦	•			•	•		
	600 W				•			•	◦							•	•	•		•			
	750 W				◦													•					
	1,000 W							•	◦							•	•			•			

• recommended ◦ used for

- 1 For lamps with ignition voltages < 2.5 kV_p
- 2 For high-pressure sodium lamps 70 W with ignition voltage 4.0–5.0 kV_p
- 3 For lamps with ignition voltages < 1,000 V
- 4 400 V lamps with 12.5 A lamp current
- 5 230 V lamps with 17.3 A lamp current
- 6 Recommended for outdoor applications

Standards

Series	Type	Page	EN 60926	EN 60927	EN 61347-2-1
Standard superimposed-pulse ignitors	ZRM 2-ES/C	Page 212		•	•
	ZRM 2.5-ES/C	Page 212		•	•
	ZRM 4.5-ES/C	Page 212		•	•
	ZRM 6-ES/C	Page 214		•	•
	ZRM 6-ES/C 400	Page 214		•	•
	ZRM 6-ES/C 3.5 kV	Page 214		•	•
	ZRM 12-ES/C	Page 216		•	•
	ZRM 12-ES/C 400	Page 216		•	•
	ZRM 20-ES/B	Page 218		•	•
	ZRM 20-ES/B 400	Page 218		•	•
Digital superimposed-pulse ignitors with switch-off function	ZRM 2-ES/CT	Page 212		•	•
	ZRM 2.5-ES/CT	Page 212		•	•
	ZRM 4.5-ES/CT	Page 212		•	•
	ZRM 6-ES/CT	Page 214			•
	ZRM 12-ES/CT	Page 216		•	•
Digital pulse ignitors	ZRM 4000 powerPULSE	Page 219		•	•
ZRM powerPULSE	ZRM 4000/400 powerPULSE	Page 219		•	•
Standard pulse ignitors with timer function	ZRM 2300 C201	Page 220	•		
	ZRM 4000 C201	Page 220	•		
	ZRM 4000 B101	Page 220	•		
Parallel pulse ignitor	ZRM 1000 A004	Page 221	•		
	ZRM 1200/400 A001	Page 222	•		
Ignitors with additional impedance	ZRM 50/35 A201W	Page 223			•
	ZRM 80/50 A201W	Page 223			•
	ZRM 80/50 B201W	Page 224			•
	ZRM 125/70 A201W	Page 223			•
	ZRM 125/70 B201W	Page 224			•

Ignitors and power switches for HID

Ignitors for generating the ignition voltages needed by metal halide lamps and sodium lamps without internal starters use either superimposed-pulse or pulse technology. The innovative range of ignitors from Tridonic includes standard ignitors suitable for all commercially available high-intensity discharge lamps with wattages from 35 to 3,500 W, which require an ignition voltage between 800 and 5,000 V depending on the type of lamp.

The special feature of superimposed-pulse ignitors is that the ignition voltage is generated without placing a high-voltage load on the choke. Superimposed-pulse technology leads to a reproducible ignition response which does not depend on the control gear used and is unaffected by voltage fluctuations.

Pulse ignitors are operated with chokes tailored specifically for them. Integrated shutdown of defective lamps reduces the load on the chokes to a minimum. Restart attempts in pulse-pause mode reduce the load on the chokes still further.

Tridonic ignitors ensure lamps start reliably even if the mains voltage is as low as 198 V (switch-on voltage). The ignitor is switched-off as soon as the lamp starts to prevent damage to the lamp. Because of the high-quality narrow-tolerance components the switch-off voltage reaches the high value of 185 V.

The increase in temperature in the ignitor determines its area of application and is therefore an important criterion. Tridonic ignitors are characterised by minimal self-heating, which in turn gives luminaire designers extra creative freedom.

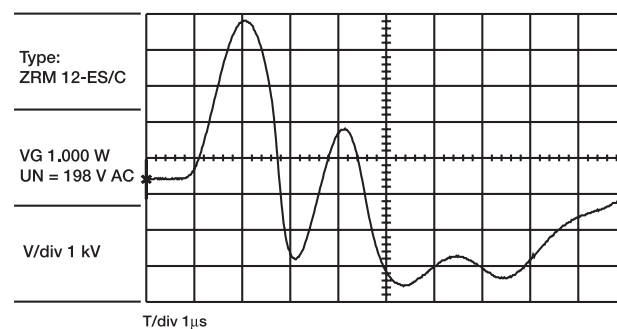
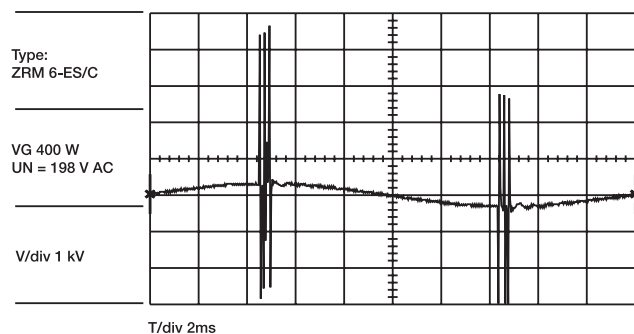
Superimposed-pulse ignitors

In ignitors that operate on the superimposed principle the ignition voltage is generated by an integrated pulse transformer.



This transforms the mains voltage to the ignition voltage of up to 5 kV required by the lamp.

A cleverly designed circuit is used to control the ignition process. This means that superimposed-pulse ignitors from Tridonic have high system reliability and reproducibility of the ignition pulses, which are largely unaffected by fluctuations in the mains voltage.



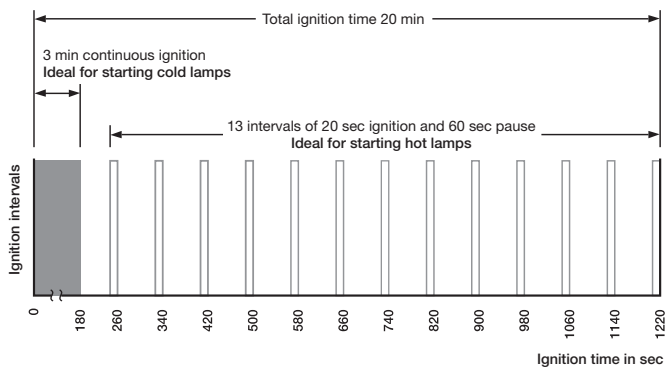
Superimposed-pulse ignitors with timers

Sodium lamps and metal halide lamps connected to conventional ignitors begin to flicker at the end of their lives. This is avoided by ZRM ES/CT superimposed-pulse ignitors with integrated digital timers and pulse-pause ignition.



The ZRM ES/CT ignitor does not generate ignition pulses constantly but in a patented two-part rhythm, creating the optimum conditions for igniting the lamps.

The lamp has time to cool down in the pauses after ignition. This leads to much faster restarts for hot lamps. Thanks to pulse-pause ignition the system downtime is reduced considerably.



The μ -chip of the integrated timer in the superimposed-pulse ignitor digitally controls the logic for ignition and automatic shutdown. An automatic reset function is also integrated. This reset function is needed for lighting systems that operate 24 hours a day (tunnels, factories).

Ignitor systems using pulse technology

In pulse ignitors the high-voltage pulse is produced in conjunction with the choke. The ignitor uses a separate tap on the choke, specially developed for pulse technology and designed for high ignition voltages.

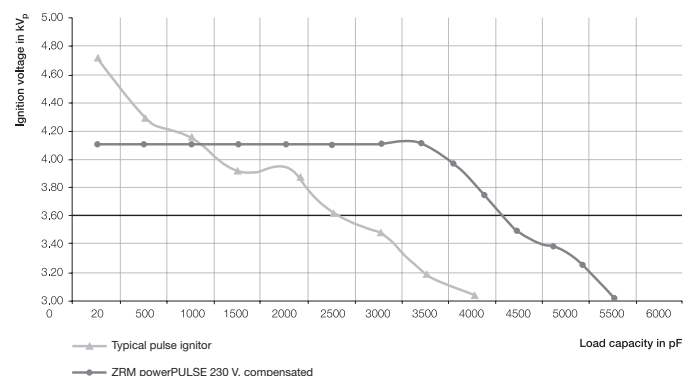


As the high-voltage pulse is generated in the choke for the ignition process it is possible to achieve very high ignition energy.

The digital ZRM powerPULSE from Tridonic compensates for the dependence of the output voltage on the mains voltage by using a microprocessor in the ignitor to control the production of the ignition pulse. This ensures that the choke and luminaire wiring are not overloaded if there

is a mains overvoltage. It also ensures that in the event of a mains undervoltage or if there are extremely long connecting cables the required ignition energy is constantly available.

Comparison of various pulse ignitors



The benefits of pulse/pause technology are evident in the ZRM powerPULSE ignitor as this ignitor reduces the restart time and EMC interference in the ignition phase.

Another feature is the integrated digital three-start counter. This stops the ignition process after three unsuccessful lamp starts to suppress lamp cycling when the lamp comes to the end of its life and avoid overloading the control gear with the high-voltage pulses.

Power changeover switches

Power changeover switches are used predominantly in street lighting to reduce the lighting level by as much as 50 % at off-peak times and therefore also reduce energy costs by a significant amount.



Tridonic offers power changeover switches for lighting systems with or without a control line. If a control line is present then power changeover switch ZRM U6L is used. This is also available with an integrated timer.

The timer ensures that the lamp is operated for a defined period of time at full output during the start phase. This in turn ensures that the life of the lamp is not reduced unnecessarily.

If there is no control line then power changeover switch ZRM U6M is used. The on and off times can be programmed centrally at any time even after installation has been completed. ZRM U6M is suitable for magnetic chokes with power tapping and also for PCIS outdoor DIM electronic ballasts.

Supplementary impedances

Supplementary impedances are used to upgrade existing luminaires with inefficient mercury vapour lamps to energy-efficient sodium vapour lamps.

Only one additional component is needed for the upgrade – the supplementary impedance with integrated digital ignitor. Because the existing choke is retained the upgrade is simple and cost-effective.



Supplementary impedances ZRM A001 and ZRM B001 from Tridonic have enhanced insulation and an integrated cutout in the event of a lamp fault. They are therefore approved for protection class 2 applications. The supplementary impedances are available in two casing designs and are equipped with 500 mm long connectionwires.

Ignition time bridging

Since high-intensity lamps require a certain starting time to reach their full output an additional lamp can be used to bridge this starting phase. The additional lamp provides sufficient light until the high-intensity lamp has completed the starting phase. The additional lamp is controlled by LRM 500. As soon as the high-intensity lamp produces enough light (about 90 % of full output) the additional lamp is switched-off.

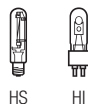


Standards and approval marks

Ignitors and power switches from Tridonic are ENEC certified, carry the CE mark and meet all the relevant European as well as international standards relating to safety, operation and electromagnetic compatibility (EMC).

Technical Information and lamp matrix

The latest technical information can be downloaded from the internet: www.tridonic.com, menu "Technical Information", submenu "Data sheets" or "Lamp matrix"



ZRM 2-ES/C to ZRM 4.5-ES/C and ZRM 2-ES/CT to ZRM 4.5-ES/CT
Capacity range 35 – 400 W

Product description

ZRM 2-ES/C, ZRM 2.5-ES/C, ZRM 4.5-ES/C

- Standard ignitor

ZRM 2-ES/CT, ZRM 2.5-ES/CT, ZRM 4.5-ES/CT

- Digital superimposed-pulse ignitors with automatic disconnection circuit
- Pulse/pause ignition: Shorter restart times, minimum downtime
- Suppression of the cycling effect with 3-start counter
- Disconnection of the ignition function after 20 min
- Automatic reset (< 1 s)

→ Product data sheet available at www.tridonic.com or on request

Technical data

Max. housing temperature Tc-point	105 °C
Min. ambient temperature	-30 °C

Notes

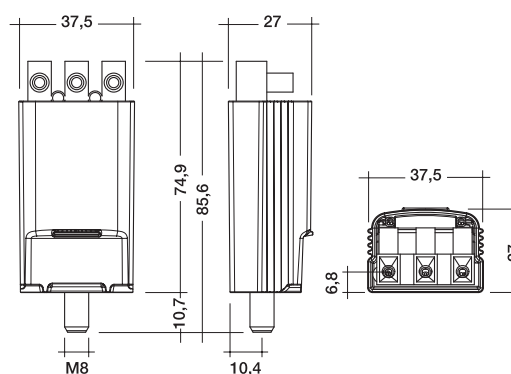
- ZRM 2-ES/C and ZRM 2-ES/CT only suitable for metal halide lamps and for sodium vapour lamps with an ignition voltage < 2.5 kV_p only
- ZRM 2.5-ES/C and ZRM 2.5-ES/CT also suitable for sodium vapour lamp HST-DE 70 W
- ZRM 4.5-ES/C and ZRM 4.5-ES/CT recommended for outdoor applications



Wiring diagrams and installation examples, page 229

Ignitor matrix, page 207

Standards, page 208



Ordering data

Weight	Type	Article number
Standard ignitor		
0.13 kg	ZRM 2-ES/C	87500080
0.13 kg	ZRM 2.5-ES/C	87500081
0.13 kg	ZRM 4.5-ES/C	87500082
Digital ignitor		
0.13 kg	ZRM 2-ES/CT	87500085
0.13 kg	ZRM 2.5-ES/CT	87500086
0.13 kg	ZRM 4.5-ES/CT	87500087

Packaging: 50 pieces / box; 1,200 pieces / pallet

Specific technical data

Type	Permitted input voltage	Mains frequency	Max. permitted lamp current I _b	Ignition voltage	Lamp wattage		Permitted load capacity	Max. cable length to lamp (75 pF/m)
					High-pressure sodium lamps	Metal halide lamps		
Standard ignitor								
ZRM 2-ES/C	198–264 V	50/60 Hz	1.0 A	1.8–2.5 kV _p	35–70 W	70 W	20–300 pF	4.0 m
ZRM 2.5-ES/C	198–264 V	50/60 Hz	3.0 A	4.0–5.0 kV _p	70–250 W	35–250 W	20–100 pF	1.5 m
ZRM 4.5-ES/C	198–264 V	50/60 Hz	4.6 A	4.0–5.0 kV _p	70–400 W	35–400 W	20–100 pF	1.5 m
Digital ignitor								
ZRM 2-ES/CT	198–264 V	50/60 Hz	1.0 A	1.8–2.5 kV _p	35–70 W	70 W	20–300 pF	4.0 m
ZRM 2.5-ES/CT	198–264 V	50/60 Hz	3.0 A	4.0–5.0 kV _p	70–250 W	35–250 W	20–100 pF	1.5 m
ZRM 4.5-ES/CT	198–264 V	50/60 Hz	4.6 A	4.0–5.0 kV _p	70–400 W	35–400 W	20–100 pF	1.5 m

Self-heating:

ZRM 2-ES/C and ZRM 2-ES/CT

at $I_b = 0.54$ A (35 W) 0.2 K

at $I_b = 1.00$ A (70 W) 2.5 K

ZRM 2.5-ES/C and ZRM 2.5-ES/CT

at $I_b = 0.54$ A (35 W) 0.1 K

at $I_b = 1.00$ A (70 W) 2.5 K

at $I_b = 1.20$ A (100 W) 4.0 K

at $I_b = 1.80$ A (150 W) 9.5 K

at $I_b = 3.00$ A (250 W) 27.0 K

ZRM 4.5-ES/C and ZRM 4.5-ES/CT

at $I_b = 0.54$ A (35 W) 0.1 K

at $I_b = 1.00$ A (70 W) 1.0 K

at $I_b = 1.20$ A (100 W) 2.0 K

at $I_b = 1.80$ A (150 W) 6.5 K

at $I_b = 3.00$ A (250 W) 14.0 K

at $I_b = 4.60$ A (400 W) 33.5 K

Losses:

ZRM 2-ES/C and ZRM 2-ES/CT

at $I_b = 0.54$ A (35 W) 0.05 W

at $I_b = 1.00$ A (70 W) 0.20 W

ZRM 2.5-ES/C and ZRM 2.5-ES/CT

at $I_b = 0.54$ A (35 W) 0.06 W

at $I_b = 1.00$ A (70 W) 0.21 W

at $I_b = 1.20$ A (100 W) 0.31 W

at $I_b = 1.80$ A (150 W) 0.72 W

at $I_b = 3.00$ A (250 W) 2.10 W

ZRM 4.5-ES/C and ZRM 4.5-ES/CT

at $I_b = 0.54$ A (35 W) 0.03 W

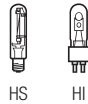
at $I_b = 1.00$ A (70 W) 0.11 W

at $I_b = 1.20$ A (100 W) 0.15 W

at $I_b = 1.80$ A (150 W) 0.35 W

at $I_b = 3.00$ A (250 W) 1.00 W

at $I_b = 4.60$ A (400 W) 2.50 W



ZRM 6-ES/C, ZRM 6-ES/CT, ZRM 6-ES/C 400 and ZRM 6-ES/C 3.5 kV
Capacity range 35 – 400 / 750 W

Product description

ZRM 6-ES/C, ZRM 6-ES/C 400 and ZRM 6-ES/C 3.5 kV

- Standard ignitor

ZRM 6-ES/CT

- Digital superimposed-pulse ignitors with automatic disconnection circuit
- Pulse/pause ignition:
Shorter restart times, minimum downtime
- Suppression of the cycling effect with 3-start counter
- Disconnection of the ignition function after 20 min
- Automatic reset (< 1 s)

→ Product data sheet available at www.tridonic.com or on request

Technical data

Max. housing temperature Tc-point	105 °C
Min. ambient temperature	–30 °C

Notes

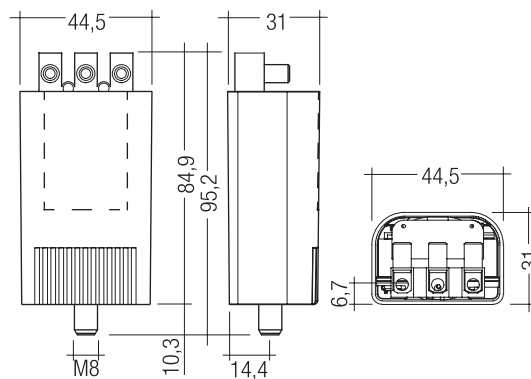
- ZRM 6-ES/C and ZRM 6-ES/CT only suitable for metal halide lamps with an ignition voltage 4 – 5 kV_p
- ZRM 6-ES/C 400 not suitable for metal halide lamps
- ZRM 6-ES/C 3.5 kV not suitable for high-pressure sodium lamps



Wiring diagrams and installation examples, page 229

Ignitor matrix, page 207

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Ordering data

Weight	Type	Article number
Standard ignitor		
0.21 kg	ZRM 6-ES/C	87500083
Digital ignitor		
0.21 kg	ZRM 6-ES/CT	87500088
Standard ignitor 400 Volt		
0.21 kg	ZRM 6-ES/C 400	87500094
Standard ignitor 3.5 kV		
0.21 kg	ZRM 6-ES/C 3.5 kV	87500034

Packaging: 20 pieces / box; 520 pieces / pallet

Specific technical data

Type	Permitted input voltage	Mains frequency	Max. permitted lamp current I _b	Ignition voltage	Lamp wattage		Permitted load capacity	Max. cable length to lamp (75 pF/m)
					High-pressure sodium lamps	Metal halide lamps		
Standard ignitor								
ZRM 6-ES/C	198 – 264 V	50/60 Hz	5.0 A	4.0 – 5.0 kV _p	70 – 400 W	35 – 400 W	20 – 100 pF	1.5 m
Digital ignitor								
ZRM 6-ES/CT	198 – 264 V	50/60 Hz	5.0 A	4.0 – 5.0 kV _p	70 – 400 W	35 – 400 W	20 – 100 pF	1.5 m
Standard ignitor U _N = 400 V								
ZRM 6-ES/C 400	360 – 466 V	50/60 Hz	6.0 A	4.0 – 5.0 kV _p	600 – 750 W	–	20 – 200 pF	3.0 m
Standard ignitor U _{ign} = 3.5 kV								
ZRM 6-ES/C 3.5 kV	198 – 264 V	50/60 Hz	5.0 A	3.0 – 4.0 kV _p	–	100 – 575 W	20 – 100 pF	1.5 m

Self-heating:

ZRM 6-ES/C and ZRM 6-ES/CT

at $I_b = 1.00 A$ (70 W)	1.1 K
at $I_b = 1.20 A$ (100 W)	1.9 K
at $I_b = 1.80 A$ (150 W)	3.7 K
at $I_b = 3.00 A$ (250 W)	9.9 K
at $I_b = 4.60 A$ (400 W)	22.2 K

ZRM 6-ES/C 400

at $I_b = 3.40 A$ (600 W)	12.9 K
at $I_b = 3.62 A$ (600 W)	14.3 K
at $I_b = 4.50 A$ (750 W)	21.8 K

ZRM 6-ES/C 3.5 kV

at $I_b = 1.10 A$ (100 W)	1.8 K
at $I_b = 3.70 A$ (450 W)	15.0 K
at $I_b = 4.60 A$ (575 W)	22.2 K

Losses:

ZRM 6-ES/C and ZRM 6-ES/CT

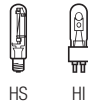
at $I_b = 1.00 A$ (70 W)	0.10 W
at $I_b = 1.20 A$ (100 W)	0.15 W
at $I_b = 1.80 A$ (150 W)	0.35 W
at $I_b = 3.00 A$ (250 W)	1.00 W
at $I_b = 4.60 A$ (400 W)	2.40 W

ZRM 6-ES/C 400

at $I_b = 3.40 A$ (600 W)	1.30 W
at $I_b = 3.62 A$ (600 W)	1.45 W
at $I_b = 4.50 A$ (750 W)	2.33 W

ZRM 6-ES/C 3.5 kV

at $I_b = 1.10 A$ (100 W)	0.13 W
at $I_b = 3.70 A$ (450 W)	1.53 W
at $I_b = 4.60 A$ (575 W)	2.42 W



ZRM 12-ES/C, ZRM 12-ES/CT and ZRM 12-ES/C 400
Capacity range 250 – 2,000 W

Product description

ZRM 12-ES/C and ZRM 12-ES/C 400

- Standard ignitor

ZRM 12-ES/CT

- Digital superimposed-pulse ignitors with automatic disconnection circuit
- Pulse/pause ignition:
Shorter restart times, minimum downtime
- Suppression of the cycling effect with 3-start counter
- Disconnection of the ignition function after 20 min
- Automatic reset (< 1 s)

→ Product data sheet available at www.tridonic.com or on request

Technical data

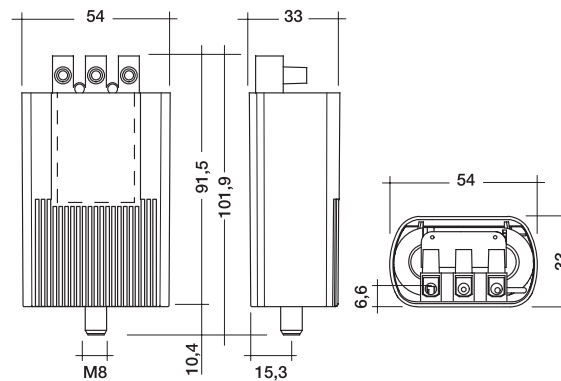
Max. housing temperature Tc-point	105 °C
Min. ambient temperature	–30 °C



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Ignitor matrix, page 207

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Ordering data

Weight	Type	Article number
Standard ignitor		
0.28 kg	ZRM 12-ES/C	87500084
Digital ignitor		
0.28 kg	ZRM 12-ES/CT	87500089
Standard ignitor 400 Volt		
0.28 kg	ZRM 12-ES/C 400	87500095

Packaging: 20 pieces / box; 400 pieces / pallet

Specific technical data

Type	Permitted input voltage	Mains frequency	Max. permitted lamp current I _b	Ignition voltage	Lamp wattage		Permitted load capacity	Max. cable length to lamp (75 pF/m)
					High-pressure sodium lamps	Metal halide lamps		
Standard ignitor								
ZRM 12-ES/C	198 – 264 V	50/60 Hz	12.0 A	4.0 – 5.0 kV _p	250 – 1,000 W	250 – 1,000 W	20 – 200 pF	3.0 m
Digital ignitor								
ZRM 12-ES/CT	198 – 264 V	50/60 Hz	12.0 A	4.0 – 5.0 kV _p	250 – 1,000 W	250 – 1,000 W	20 – 100 pF	3.0 m
Standard ignitor U _N = 400 V								
ZRM 12-ES/C 400	342 – 440 V	50/60 Hz	12.7 A	4.0 – 5.0 kV _p	600 – 1,000 W	1,000 – 2,000 W	20 – 200 pF	3.0 m

Self-heating:

ZRM 12-ES/C

at $I_b = 4.60 A$ (400 W)	5.9 K
at $I_b = 6.20 A$ (600 W)	10.3 K
at $I_b = 7.00 A$ (750 W)	13.2 K
at $I_b = 10.30 A$ (1,000 W)	27.2 K
at $I_b = 12.00 A$ (max. W)	36.6 K

ZRM 12-ES/C 400

at $I_b = 3.40 A$ (600 W)	3.5 K
at $I_b = 3.62 A$ (600 W)	4.0 K
at $I_b = 4.50 A$ (750 W)	5.8 K
at $I_b = 6.80 A$ (1,500 W)	12.7 K
at $I_b = 10.30 A$ (2,000 W)	27.2 K
at $I_b = 12.70 A$ (max. W)	36.6 K

ZRM 12-ES/CT

at $I_b = 3.00 A$ (250 W)	2.9 K
at $I_b = 4.60 A$ (400 W)	5.9 K
at $I_b = 6.20 A$ (600 W)	10.3 K
at $I_b = 7.00 A$ (750 W)	13.2 K
at $I_b = 10.30 A$ (1,000 W)	27.2 K
at $I_b = 12.00 A$ (max. W)	36.6 K

Losses:

ZRM 12-ES/C

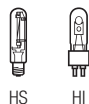
at $I_b = 4.60 A$ (400 W)	0.82 W
at $I_b = 6.20 A$ (600 W)	1.54 W
at $I_b = 7.00 A$ (750 W)	2.02 W
at $I_b = 10.30 A$ (1,000 W)	4.68 W
at $I_b = 12.00 A$ (max. W)	6.73 W

ZRM 12-ES/C 400

at $I_b = 3.40 A$ (600 W)	0.45 W
at $I_b = 3.62 A$ (600 W)	0.51 W
at $I_b = 4.50 A$ (750 W)	0.72 W
at $I_b = 6.80 A$ (1,500 W)	1.86 W
at $I_b = 10.30 A$ (2,000 W)	4.68 W
at $I_b = 12.70 A$ (max. W)	6.73 W

ZRM 12-ES/CT

at $I_b = 3.00 A$ (250 W)	0.35 W
at $I_b = 4.60 A$ (400 W)	0.82 W
at $I_b = 6.20 A$ (600 W)	1.54 W
at $I_b = 7.00 A$ (750 W)	2.02 W
at $I_b = 10.30 A$ (1,000 W)	4.68 W
at $I_b = 12.00 A$ (max. W)	6.73 W



ZRM 20-ES/B and ZRM 20-ES/B 400

Capacity range 1,000 – 3,500 W

Product description

- Standard ignitor

→ Product data sheet available at www.tridonic.com or on request

Technical data

Max. housing temperature Tc-point	105 °C
Min. ambient temperature	–30 °C

Notes

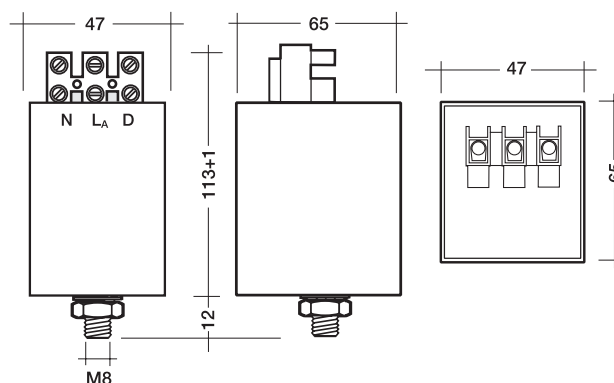
- ZRM 20-ES/B 400 not suitable for high-pressure sodium lamps



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Ordering data

Weight	Type	Article number
Standard ignitor		
0.75 kg	ZRM 20-ES/B	20826280
Standard ignitor 400 Volt		
0.75 kg	ZRM 20-ES/B 400	20826425

Packaging: 15 pieces/box; 360 pieces/pallet

Specific technical data

Type	Permitted input voltage	Mains frequency	Max. permitted lamp current I_b	Ignition voltage	Lamp wattage	Permitted load capacity	Max. cable length to lamp (75 pF/m)
Standard ignitor							
ZRM 20-ES/B	198 – 264 V	50/60 Hz	20.0 A	3.5 – 5.0 kV _p	1,000 W	1,000 – 2,000 W	20 – 200 pF
Standard ignitor $U_N = 400 V$							
ZRM 20-ES/B 400	198 – 264 V	50/60 Hz	20.0 A	4.0 – 5.0 kV _p	–	2,000 – 3,500 W	20 – 200 pF

Self-heating:

ZRM 20-ES/B

at $I_b = 10.30 A$ (1,000 W)	9.5 K
at $I_b = 16.20 A$ (2,000 W)	26.0 K

ZRM 20-ES/B 400

at $I_b = 16.20 A$ (2,000 W)	10.5 K
at $I_b = 18.00 A$ (3,500 W)	28.0 K

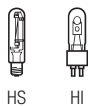
Losses:

ZRM 20-ES/B

at $I_b = 10.30 A$ (1,000 W)	1.8 W
at $I_b = 16.20 A$ (2,000 W)	5.9 W

ZRM 20-ES/B 400

at $I_b = 16.20 A$ (2,000 W)	2.9 W
at $I_b = 18.00 A$ (3,500 W)	9.3 W

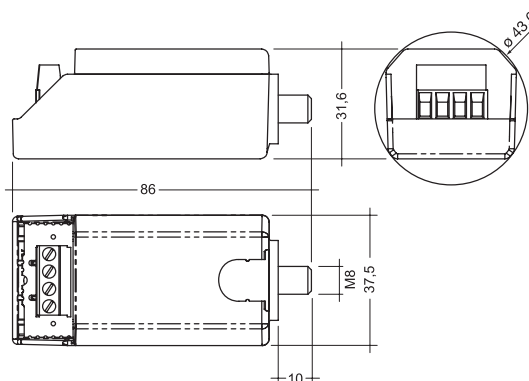


ZRM 4000 and 4000/400 powerPULSE

Digital

Product description

- Innovative digital pulse ignition
- Pulse/pause ignition:
Shorter restart times, minimum downtime
- No annoying flashing
- Silent operation
- Low weight
- Regulated maximum ignition voltage
and therefore enhanced safety for the choke
- Also suitable for special sodium vapour lamps (Plus, Super, XL)
- Screw terminals for 2.5 mm²



→ Product data sheet available at www.tridonic.com or on request

Technical data

Number of pulses per mains half-wave	1
Pulse width at 90 % ignition voltage	> 10 µs
Phase angle of the ignition pulse	72/252 °el
Min. cable length to lamp	0.2 m
Max. cable length to lamp	40 m
Max. housing temperature T _c -point	85 °C
Min. ambient temperature	-30 °C

Notes

- ZRM 4000 powerPULSE only suitable for metal halide lamps
with an ignition voltage > 2.5 kV_p

Ordering data

Weight	Type	Article number
0.052 kg	ZRM 4000 powerPULSE	86458458
0.058 kg	ZRM 4000/400 powerPULSE	86458459

Packaging: 50 pieces / box; 1,200 pieces / pallet



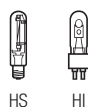
Wiring diagrams and installation examples, page 229

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Specific technical data

Type	Permitted input voltage	Mains frequency	Ignition voltage	Losses at nominal voltage	Lamp wattage		Permitted load capacity
					High-pressure sodium lamps	Metal halide lamps	
ZRM 4000 powerPULSE	198–264 V	50/60 Hz	4.1 kV _p	0.9 W	70–1,000 W	35–1,800 W	20–4,000 pF
ZRM 4000/400 powerPULSE	342–484 V	50/60 Hz	4.1 kV _p	1.5 W	600–750 W	1,800–2,000 W	20–4,000 pF



ZRM 2300 and ZRM 4000

Standard with timer

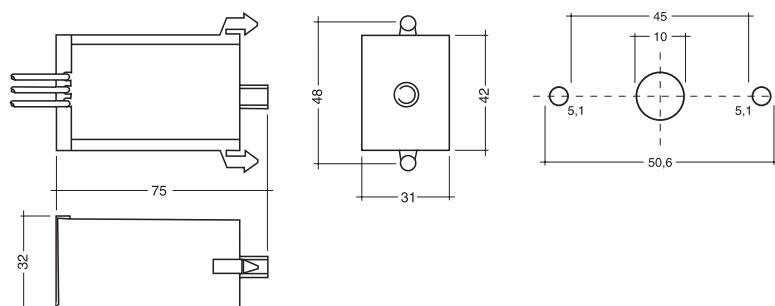
Product description

- Stud or snap fixing
- Protection class IP 20
- Connection with flexible wires 3 x 0.75 mm²
- Cable length 340 x 340 x 340 mm
- Pulse/pause ignition: (ZRM 2300 C201 and ZRM 4000 C201):
pulse: 16 s; pause: 112 s;
time-out: 15 min

→ Product data sheet available at www.tridonic.com or on request

Technical data

Number of pulses per mains half-wave	1
Pulse width at 90 % ignition voltage	> 2 µs
Phase angle of the ignition pulse	60 – 90/240 – 270 °el
Cable length to lamp	see product data sheet
Max. housing temperature T _c -point	80 °C
Min. ambient temperature	–40 °C



Notes

- ZRM 2300 C201 and ZRM 4000 C201 with digital timer:
disconnection of the ignition function after 15 min
- ZRM 4000 B101 with analogue timer:
disconnection of the ignition function after 2 – 10 min,
not ENEC certified



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Ordering data

Weight	Type	Article number
0.045 kg	ZRM 2300 C201	87500000
0.053 kg	ZRM 4000 B101	87500002
0.053 kg	ZRM 4000 C201	87500001

Packaging: 40 pieces / box; 1,440 pieces / pallet

Specific technical data

Type	Permitted input voltage	Mains frequency	Ignition voltage	Lamp wattage		Permitted load capacity
				High-pressure sodium lamps	Metal halide lamps	
ZRM 2300 C201	198 – 254 V	50 Hz	2.3 kV _p	50 – 70 W	–	20 – 1,300 pF
ZRM 4000 B101	198 – 254 V	50 Hz	4.5 kV _p	100 – 400 W	–	20 – 1,300 pF
ZRM 4000 C201	198 – 254 V	50 Hz	4.5 kV _p	100 – 1,000 W	35 – 1,000 W	20 – 1,300 pF



ZRM 1000 A004

Parallel

Product description

- Parallel pulse ignitor
- Suitable for metal halide lamps with an ignition voltage $< 900 V_{\text{ign}}$
- Compact dimensions
- Screw terminal $0.5 - 1.5 \text{ mm}^2$

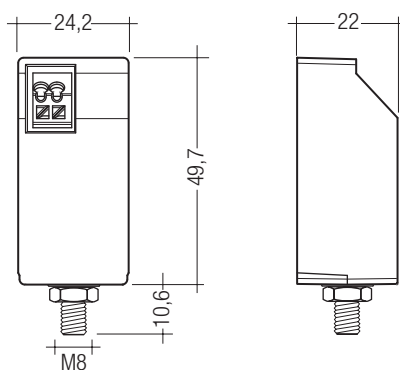
→ Product data sheet available at www.tridonic.com or on request

Technical data

Number of pulses per mains half-wave	1
Pulse width at 560 V ignition voltage	420 – 460 μs
Phase angle of the ignition pulse	60 – 90 °el
Min. cable length to lamp	0.2 m
Max. cable length to lamp	100 m
Max. housing temperature T _c -point	90 °C
Min. ambient temperature	–30 °C

Notes

- Only suitable for metal halide lamps
with an ignition voltage $< 900 V_{\text{ign}}$



Ordering data

Weight	Type	Article number
0.02 kg	ZRM 1000 A004	87500067

Packaging: 50 pieces / box; 2,600 pieces / pallet

Specific technical data

Type	Permitted input voltage	Mains frequency	Ignition voltage	Temperature rise during ignition	Losses during ignition	Lamp wattage Metal halide lamps	Permitted load capacity
ZRM 1000 A004	198 – 264 V	50/60 Hz	0.65 – 0.90 kV _p	8 K	1.6 W	250 – 1,000 W	20 – 10,000 pF



ZRM 1200/400 A001

Parallel

Product description

- Parallel pulse ignitor for 400 V_{UN}
- Suitable for metal halide lamps
- Compact dimensions
- Screw terminal up to 2.5 mm²

→ Product data sheet available at www.tridonic.com or on request

Technical data

Number of pulses per mains half-wave	1
Pulse width at 900 V ignition voltage	400 – 450 µs
Phase angle of the ignition pulse	60 – 90 °el
Min. cable length to lamp	0.2 m
Max. cable length to lamp	100 m
Max. housing temperature T _c -point	100 °C
Min. ambient temperature	–30 °C

Notes

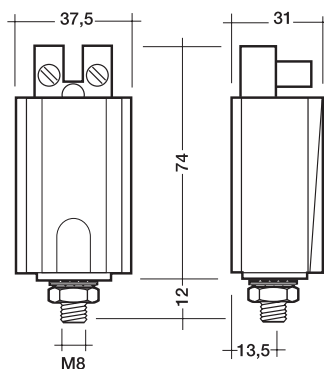
- Only suitable for metal halide lamps
with an ignition voltage < 900 V



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Ordering data

Weight	Type	Article number
0.17 kg	ZRM 1200/400 A001	89121941

Packaging: 50 pieces/box; 1,200 pieces/pallet

Specific technical data

Type	Permitted input voltage	Mains frequency	Ignition voltage	Temperature rise during ignition	Losses during ignition	Lamp wattage Metal halide lamps	Permitted load capacity
ZRM 1200/400 A001	376 – 440 V	50/60 Hz	1.0 – 1.4 kV _p	35 K	3.8 W	2,000 W	20 – 10,000 pF



ZRM A201W

High-pressure mercury vapour lamp conversion kits

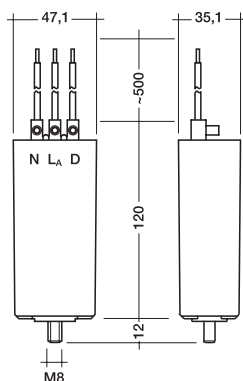
Product description

- Integrated reversible thermal controller
- Premounted connecting cable 3 x 1 mm², 8 mm stripped with end sleeves, 500 mm long, double insulation for protection class 2 applications
- Protection class 2 compatible with the use of terminal cover and cable ties
- Integrated digital superimposed-pulse ignitor with automatic disconnection
- Pulse/pause ignition:
Shorter restart times, minimum downtime
- Suppression of the cycling effect with 3-start counter
- Automatic reset (< 1 s)

→ Product data sheet available at www.tridonic.com or on request

Technical data

Max. cable length to lamp (75 pF/m)	3.0 m
Max. housing temperature T _c -point	105 °C
Min. ambient temperature	-30 °C



Ordering data

Weight	Type	Article number
Standard ignitor		
0.53 kg	ZRM 50/35 A201W	22175202
0.53 kg	ZRM 80/50 A201W	22175200
0.53 kg	ZRM 125/70 A201W	22175201

Packaging: 25 pieces / box; 600 pieces / pallet

Specific technical data

Type	Permitted input voltage	Mains frequency	Max. permitted lamp current I _g	Ignition voltage	Temperature rise	Losses	Upgrade kit from high-pressure mercury to high-pressure sodium vapour lamps	Permitted load capacity
ZRM 50/35 A201W	198–264 V	50/60 Hz	0.53 A	1.8–2.5 kV _p	~ 25 K	~ 3.9 W	HM 50 to HS 35 W	200 pF
ZRM 80/50 A201W	198–264 V	50/60 Hz	0.76 A	1.8–2.5 kV _p	~ 19 K	~ 3.6 W	HM 80 to HS 50 W	200 pF
ZRM 125/70 A201W	198–264 V	50/60 Hz	1.00 A	1.8–2.5 kV _p	~ 30 K	~ 8.7 W	HM 125 to HS 70 W	200 pF



ZRM B201W

High-pressure mercury vapour lamp conversion kits

Product description

- Integrated reversible thermal controller
- Premounted connecting cable 3 x 1 mm², 8 mm stripped with end sleeves, 500 mm long, double insulation for protection class 2 applications
- Protection class 2 compatible with the use of terminal cover and cable ties
- Integrated digital superimposed-pulse ignitor with automatic disconnection
- Pulse/pause ignition:
Shorter restart times, minimum downtime
- Suppression of the cycling effect with 3-start counter
- Automatic reset (< 1 s)

→ Product data sheet available at www.tridonic.com or on request

Technical data

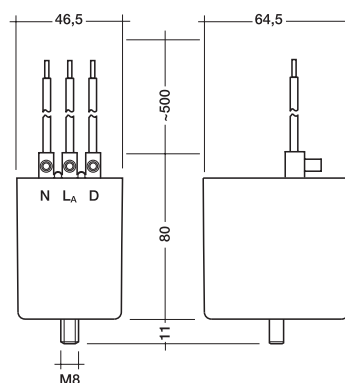
Max. cable length to lamp (75 pF/m)	3.0 m
Max. housing temperature T _c -point	105 °C
Min. ambient temperature	-30 °C



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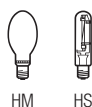
Ordering data

Weight	Type	Article number
Standard ignitor		
0.54 kg	ZRM 80/50 B201W	22175203
0.54 kg	ZRM 125/70 B201W	22175204

Packaging: 30 pieces / box; 720 pieces / pallet

Specific technical data

Type	Permitted input voltage	Mains frequency	Max. permitted lamp current I _b	Ignition voltage	Temperature rise	Losses	Upgrade kit from high-pressure mercury to high-pressure sodium vapour lamps	Permitted load capacity
ZRM 80/50 B201W	198 – 264 V	50/60 Hz	0.76 A	1.8 – 2.5 kV _p	~ 27 K	~ 3.6 W	HM 80 auf HS 50 W	200 pF
ZRM 125/70 B201W	198 – 264 V	50/60 Hz	1.00 A	1.8 – 2.5 kV _p	~ 50 K	~ 8.7 W	HM 125 auf HS 70 W	200 pF



ZRM U6L / ZRM U6L-T

Energy savings in street lighting

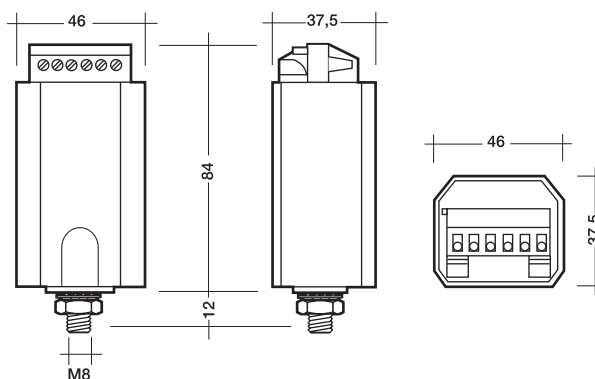
Product description

Switching to a lower power stage reduces the luminous flux. This enables energy savings to be made without affecting the life of the lamp. According to lamp manufacturers, lamps should always be started at 100 % output. In the case of ZRM U6L, this can be achieved with a separate time relay at the central signal transmitter. ZRM U6L/T has a built-in delay. After every interruption in the power supply the lamp is operated at 100 % output for a period of 330 seconds irrespective of the light value selected.

- Product data sheet available at www.tridonic.com or on request
- The "Energy savings in street lighting" brochure is available at www.tridonic.com or on request

Technical data

Max. housing temperature Tc-point	80 °C
Min. ambient temperature	-30 °C



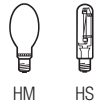
Ordering data

Weight	Type	Article number
0.185 kg	ZRM U6L	87500039
0.185 kg	ZRM U6L/T	87500040

Packaging: 40 pieces / box; 800 pieces / pallet

Specific technical data

Type	Permitted input voltage	Mains frequency	Self-heating	Rated contact voltage	Rated contact current	Switchover delay
ZRM U6L	198 – 264 V	50/60 Hz	8 K	250 V	6 A / cos phi = 0.5 16 A / cos phi = 1.0	–
ZRM U6L/T	198 – 264 V	50/60 Hz	9 K	250 V	6 A / cos phi = 0.5 16 A / cos phi = 1.0	330 s



ZRM U6M

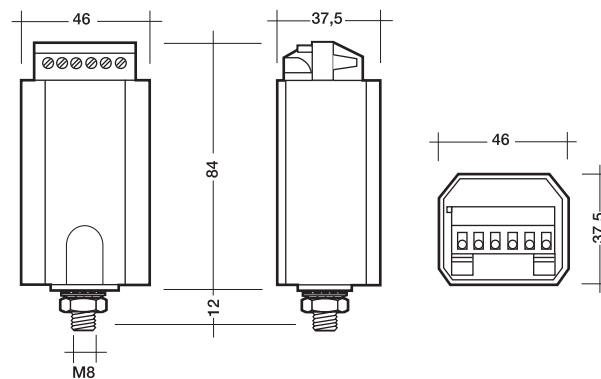
Energy savings in street lighting

Product description

ZRM U6M has an internal clock which is synchronised daily to midnight. The changeover time can be set to any time and can be adjusted from a central location.

- For changing impedance with tapped chokes or supplementary impedances
- For changing impedance with tapped chokes or supplementary impedances
- Digital switchover relay with temporary bridging for interruption-free power reduction
- Integrated delay circuit for gentle lamp starting at 100 % output
- ZRM U6M A001 for magnetic chokes with integrated temporary bridging
- ZRM U6M A003 for electronic ballasts with control input

→ Product data sheet available at www.tridonic.com or on request
→ The “Energy savings in street lighting” brochure is available at www.tridonic.com or on request



Technical data

Max. housing temperature Tc-point	80 °C
Min. ambient temperature	−30 °C



Wiring diagrams and installation examples, page 229

Ordering data

Weight	Type	Article number
0.23 kg	ZRM U6M A001	87500044
0.23 kg	ZRM U6M A003	87500045

Packaging: 40 pieces / box; 800 pieces / pallet

Specific technical data

Type	Permitted input voltage	Mains frequency	Self-heating	Rated contact voltage	Rated contact current	Switchover delay
ZRM U6M A001	198–264 V	50/60 Hz	10 K	250 V	6 A / cos phi = 0.5 16 A / cos phi = 1.0	600 s
ZRM U6M A003	198–264 V	50/60 Hz	5 K	250 V	6 A / cos phi = 0.5 16 A / cos phi = 1.0	600 s



LRM 500 S
Ignition time bridging

Product description

Since high-intensity lamps require a certain starting time to reach their full output an additional lamp can be used to bridge this starting phase. The additional lamp provides sufficient light until the high-intensity lamp has completed the starting phase. The additional lamp is controlled by LRM 500 S. As soon as the high-intensity lamp produces enough light (about 90 % of full output) the additional lamp is switched-off.

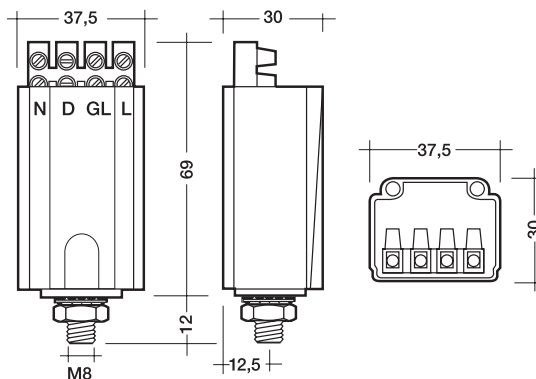
→ Product data sheet available at www.tridonic.com or on request

Technical data

Max. housing temperature Tc-point	90 °C
Min. ambient temperature	−30 °C



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Ordering data

Weight	Type	Article number
0.15 kg	LRM 500 S	87500041

Packaging: 50 pieces / box; 1,400 pieces / pallet

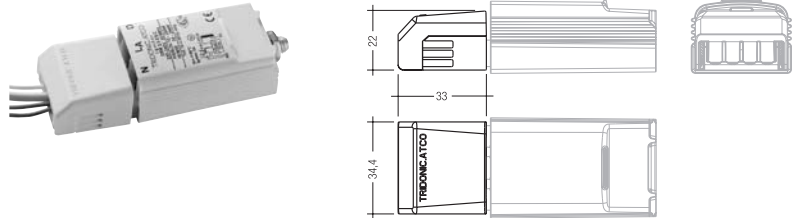
Specific technical data

Type	Permitted input voltage	Mains frequency	Temperature rise	Maximum HID lamp wattage	Auxiliary lamp wattage	Maximum choke voltage U _b
LRM 500 S	198–264 V	50/60 Hz	12 K	1,000 W	5–500 W	800 V

ZRM ES/C terminal cover

Product description

- Contact protection
- No tools required for installing
- Can be mounted even after the cables have been fitted
- Suitable for:
ZRM 2-ES/C; ZRM 2-ES/CT
ZRM 2.5-ES/C; ZRM 2.5-ES/CT
ZRM 4.5-ES/C; ZRM 4.5-ES/CT
ZRM 6-ES/C; ZRM 6-ES/CT; ZRM 6-ES/C 400; ZRM 6-ES/C 3.5 kV
ZRM 12-ES/C; ZRM 12-ES/CT; ZRM 12-ES/C 400

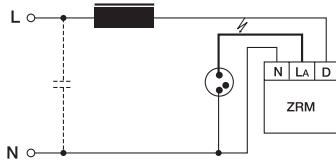


Ordering data

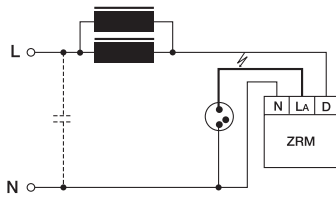
Dimensions (LxBxH)	Weight	Type	Article number
33x34.4x22 mm	0.01 kg	Terminal cover ZRM ES/C	24139100

Packaging: 350 pieces / box; 2,800 pieces / pallet

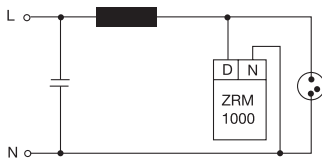
Single-voltage circuit with superimposed-pulse ignitor for sodium vapour lamps and metal halide lamps



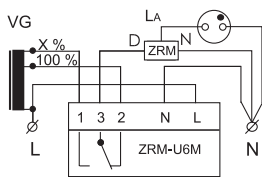
Single-voltage circuit for ECIS 150 ½ with superimposed-pulse ignitor for sodium vapour lamps and metal halide lamps



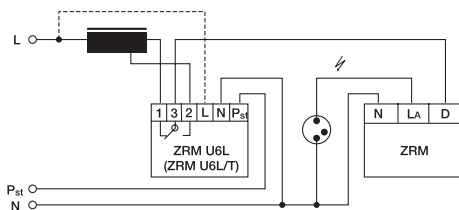
Parallel pulse circuit for metal halide lamps up to 1 kV_p ignition voltage



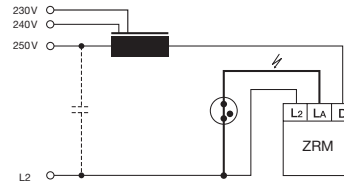
Power changeover for sodium vapour lamps by means of tapped choke and ZRM U6M



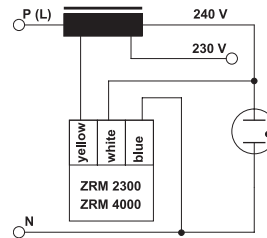
Power changeover for sodium vapour lamps by means of tapped choke and ZRM U6L



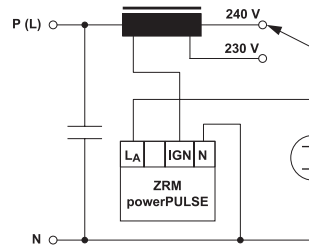
Multi-voltage circuit with superimposed-pulse ignitor for sodium vapour lamps and metal halide lamps



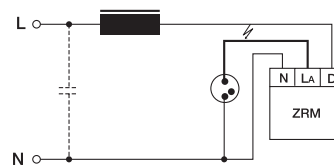
Multi-voltage circuit with pulse ignitors ZRM 2300 and ZRM 4000



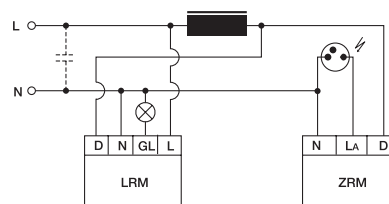
Multi-voltage circuit with pulse ignitors ZRM 4000 powerPULSE for sodium vapour lamps and metal halide lamps



Upgrading from mercury vapour lamps to sodium vapour lamps by means of supplementary impedance



Ignition time bridging of metal halide lamps by means of LRM 500 S



Overview	Page 233
Product matrix	Page 233
Lamp matrix – Metal halide lamps	Page 233
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Product information	Page 243
Electronic ballasts for HID	Page 243

Indoor HI

Build-in applications

powerCONTROL PCI PRO C011 Single	Page 245
powerCONTROL PCI B011 Single	Page 246
powerCONTROL PCI PRO pcb C011 Single	Page 247
powerCONTROL PCI pcb B011 Single	Page 248
powerCONTROL PCI B011 Twin	Page 249
powerCONTROL PCI FOX B011	Page 250

Surface-mounted applications

powerCONTROL PCI PRO C021 Single	Page 251
powerCONTROL PCI B021 Twin	Page 252
powerCONTROL PCI PRO C521 Single ST	Page 253
powerCONTROL PCI PRO C521 Single GST	Page 254
powerCONTROL PCI B521 Twin	Page 255

Outdoor HI / HS

Build-in applications

powerCONTROL PCIS / PCI / PCS outdoor FOX B011	Page 256
powerCONTROL PCIS / PCI / PCS outdoor DIM B011	Page 257

Wiring diagrams and installation examples	Page 258

Product / lamp matrix – Metal halide lamps

Application	Mounting	Type	Page	HI lamps							HS lamps				Interface Feature		
				20W	22W	35W	70W	100W	150W	250W	70W	100W	150W	250W	DALI/DSI switchable	DALI/DSI dimmable	stepDIM
Indoor HI	Build-in	NEW	powerCONTROL PCI PRO C011 Single	Page 245	•	•	•	•	•								
			powerCONTROL PCI B011 Single	Page 246	•		•	•	•								
		NEW	powerCONTROL PCI PRO pcb C011 Single	Page 247	•	•	•	•	•								
			powerCONTROL PCI pcb B011 Single	Page 248			•	•									
			powerCONTROL PCI B011 Twin	Page 249			•	•									
			powerCONTROL PCI FOX B011	Page 250	•		•	•	•						•		
	Surface-mount	NEW	powerCONTROL PCI PRO C021 Single	Page 251	(•)	(•)	•	•	•								
			powerCONTROL PCI B021 Twin	Page 252			•	•									
		NEW	powerCONTROL PCI PRO C521 Single	Page 253	(•)	(•)	•	•	•								
			powerCONTROL PCI B521 Twin	Page 255			•	•									
Outdoor HI/HS	Build-in	NEW	powerCONTROL PCIS outdoor FOX B011	Page 256				•	•	•		•	•	•	•		
		NEW	powerCONTROL PCI outdoor FOX B011	Page 256			•								•		
		NEW	powerCONTROL PCS outdoor FOX B011	Page 256							•				•		
		NEW	powerCONTROL PCIS outdoor DIM B011	Page 257				•	•	•		•	•	•	•	•	•
		NEW	powerCONTROL PCS outdoor DIM B011	Page 257							•				•	•	•

(•) In preparation.

Metal halide lamps, 35–150 W

BLV

Wattage	Description	Dimmable	Lamp holder	Current A	PCI B011 Single	PCI pcb B011 Single	PCI B011 Twin	PCI FOX B011	PCI B021 Twin	PCI B521 Twin	PCI PRO C011 Single	PCI PRO pcb C011 Single	PCI PRO C021 Single	PCI PRO C521 Single	PCIS outdoor FOX B011	PCI outdoor FOX B011	PCS outdoor FOX B011	PCIS outdoor DIM B011	PCS outdoor DIM B011
35 W	HIT-35W	no	G8.5	0.43	•	•	•	•	•	•	•	•	•	•					
70 W	C-HIT 70W W	no	G12	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HIE... 70W ...	no	Rx7s	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HIE... 70W ...	no	E27	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HIE... 70W ...	no	G12	1.00	•	•	•	•	•	•	•	•	•	•		•			
100 W	HIE 100W	no	E27	1.20															
	MHR 100W	no	E27	1.20	•						•	•			•			◦	
150 W	C-HIT 150W ww	no	G12	1.80	•			•			•	•	•	•	•			◦	
	HIE150W	no	G12	1.80	•			•			•	•	•	•	•			◦	
	MHR 150W	no	Plug	1.80	•			•			•	•	•	•	•			◦	

For an up-to-date lamp matrix go to www.tridonic.com

◦ The lamp is not approved for use with dimmers.

Lamp matrix – Metal halide lamps

Metal halide lamps, 20–150 W

GE

Wattage	Description	Dimmable	Lamp holder	Current A	PCI B011 Single	PCI pcb B011 Single	PCI B011 Twin	PCI FOX B011	PCI B021 Twin	PCI B521 Twin	PCI PRO C011 Single	PCI PRO pcb C011 Single	PCI PRO C021 Single	PCI PRO C521 Single	PCS outdoor FOX B011	PCI outdoor FOX B011	PCS outdoor FOX B011	PCS outdoor DIM B011	PCS outdoor DIM B011
20 W	CMH 20W	no	G12	0.23	•			•			•	•	(•)	(•)					
	CMH 20W MR16	no	GX12	0.23	•			•			•	•	(•)	(•)					
	CMH 20W SuperMini	no	GU6.5	0.23	•			•			•	•	(•)	(•)					
	CMH 20W T	no	GU6.5	0.23	•			•			•	•	(•)	(•)					
	CMH 20W TC	no	GU8.5	0.23	•			•			•	•	(•)	(•)					
	CMH 20W PAR30	no	E27	0.23	•			•			•	•	(•)	(•)					
35 W	CMH 35W MR16	no	GX10	0.50	•	•	•	•	•	•	•	•	•	•					
	CMH 35W PAR	no	E27	0.50	•	•	•	•	•	•	•	•	•	•					
	CMH 35W T	no	G12	0.50	•	•	•	•	•	•	•	•	•	•					
	CMH 35W T	no	GU6.5	0.45	•	•	•	•	•	•	•	•	•	•					
	CMH 35W TC	no	G8.5	0.50	•	•	•	•	•	•	•	•	•	•					
70 W	ARC 70W...	no	Rx7s	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CMH 70W E	no	E27	0.98	•	•	•	•	•	•	•	•	•	•		•			
	CMH 70W PAR	no	E27	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CMH 70W T ...	no	G12	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CMH 70W T Mini	no	G8.5	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CMH 70W TC	no	G8.5	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CMH 70W TD ...	no	Rx7s	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CMH 70W TT	down to 65 %	E27	1.00	•	•	•	•	•	•	•	•	•	•			•		•
	CMH 70W TU	no	G12	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CMH 70W Ultra Mini	no	G8.5	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CMH 70W Ultra	no	G12	1.00	•	•	•	•	•	•	•	•	•	•		•			
100 W	CMH 100W PAR	no	E27	1.20	•						•	•			•			◦	
	CMH 100W C/U/830	no	E27	1.20	•						•	•			•			◦	
	MXR 100W	no	E27	1.20	•						•	•			•			◦	
150 W	ARC 150W...	no	G12	1.80	•			•			•	•	•	•	•			◦	
	ARC 150W...	no	Rx7s	1.80	•			•			•	•	•	•	•			◦	
	CMH 150W E UVC O	down to 65 %	E27	1.85	•			•			•	•	•	•	•			•	
	CMH 150W TT	down to 65 %	E40	1.85	•			•			•	•	•	•	•			•	
	CMH-T 150W	down to 65 %	G12	1.80	•			•			•	•	•	•	•			•	
	CMH-TD 150W	down to 65 %	Rx7s	1.80	•			•			•	•	•	•	•			•	

For an up-to-date lamp matrix go to www.tridonic.com

(•) In preparation.

◦ The lamp is not approved for use with dimmers.

Lamp matrix – Metal halide lamps

Metal halide lamps, 20–150 W

Osram

Wattage	Description	Dimmable	Lamp holder	Current A	PCI B011 Single	PCI pcb B011 Single	PCI B011 Twin	PCI FOX B011	PCI B021 Twin	PCI B521 Twin	PCI PRO C011 Single	PCI PRO pcb C011 Single	PCI PRO C021 Single	PCI PRO C521 Single	PCIS outdoor FOX B011	PCI outdoor FOX B011	PCS outdoor FOX B011	PCIS outdoor DIM B011	PCS outdoor DIM B011
20 W	HCI-TC 20W	no	G8.5	0.23	•			•			•	•	(•)	(•)					
	HCI-TF 20W	no	GU6.5	0.23	•			•			•	•	(•)	(•)					
	HCI-R111 20W	no	GX8.5	0.23	•			•			•	•	(•)	(•)					
35 W	HCI-E/P 35W	no	E27	0.53	•	•	•	•	•	•	•	•	•	•					
	HCI-T 35W ...	no	G12	0.53	•	•	•	•	•	•	•	•	•	•					
	HCI-TC 35W WDL	no	G8.5	0.53	•	•	•	•	•	•	•	•	•	•					
	HCI-PAR 35W	no	E27	0.53	•	•	•	•	•	•	•	•	•	•					
	HCI-R111 35W	no	GX8.5	0.53	•	•	•	•	•	•	•	•	•	•					
	HQI-T 35W WDL	no	G12	0.53	•	•	•	•	•	•	•	•	•	•					
	HQI-T 35W WDL/BU	no	G12	0.53	•	•	•	•	•	•	•	•	•	•					
70 W	HCI-E/P 70W	no	E27	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HCI-PAR 30 70W WDL	no	E27	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HCI-T 70W	no	G12	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HCI-T 70W WDL	no	G12	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HCI-TC 70W WDL	no	G8.5	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HCI-TS 70	no	Rx7s	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HCI-TT 70W	no	E27	0.85	•	•	•	•	•	•	•	•	•	•		•			
	HCI-R111 70W	no	GX8.5	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HQI-E 70W...	no	E27	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HQI-T 70W...	no	G12	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HQI-TS 70W...	no	Rx7s	1.00	•	•	•	•	•	•	•	•	•	•		•			
100 W	HCI-E/P 100W	no	E27	1.20	•						•	•			•			◦	
	HQI-E 100W...	no	E27	1.20	•						•	•			•			◦	
150 W	HCI-E/P 150W WDL	no	E27	1.80	•			•			•	•	•	•	•			◦	
	HCI-T 150W ...	no	G12	1.80	•			•			•	•	•	•	•			◦	
	HCI-TS 150W ...	no	Rx7s	1.80	•			•			•	•	•	•	•			◦	
	HCI-TT 150W	no	E40	1.80	•			•			•	•	•	•	•			◦	
	HQI-E 150W ...	no	E27	1.80	•			•			•	•	•	•	•			◦	
	HQI-R 150W...	no	Plug	1.80	•			•			•	•	•	•	•			◦	
	HQI-T 150W ...	no	G12	1.80	•			•			•	•	•	•	•			◦	
	HQI-TS 150W ...	no	Rx7s	1.80	•			•			•	•	•	•	•			◦	
	HTI 150W	no	Plug	1.80	•			•			•	•	•	•	•			◦	

For an up-to-date lamp matrix go to www.tridonic.com

(•) In preparation.

◦ The lamp is not approved for use with dimmers.

Lamp matrix – Metal halide lamps

Metal halide lamps, 35–150 W

Iwasaki

Wattage	Description	Dimmable	Lamp holder	Current A	PCI B011 Single	PCI pcb B011 Single	PCI B011 Twin	PCI FOX B011	PCI B021 Twin	PCI B521 Twin	PCI PRO C011 Single	PCI PRO pcb C011 Single	PCI PRO C021 Single	PCI PRO C521 Single	PCS outdoor FOX B011	PCI outdoor FOX B011	PCS outdoor FOX B011	PCS outdoor DIM B011	PCS outdoor DIM B011
35 W	MT 35W CE-W	no	G12	0.46	•	•	•	•	•	•	•	•	•	•					
	CM 35W P20	no	E27	0.46	•	•	•	•	•	•	•	•	•	•					
70 W	MHT 70W Color Arc	no	G12	1.00	•	•	•	•	•	•	•	•	•	•		•			
	MT 70W Color Arc	no	E27	1.00															
150 W	MT 150W CEH-W/BU	yes	E27	1.80	•			•			•	•	•	•	•			•	
	MT 150W Color Arc	no	E27	1.80															
	MT 150W D 6500K	no	G12	1.80	•			•			•	•	•	•	•			◦	

Metal halide lamps, 35–150 W

Radium

Wattage	Description	Dimmable	Lamp holder	Current A	PCI B011 Single	PCI pcb B011 Single	PCI B011 Twin	PCI FOX B011	PCI B021 Twin	PCI B521 Twin	PCI PRO C011 Single	PCI PRO pcb C011 Single	PCI PRO C021 Single	PCI PRO C521 Single	PCS outdoor FOX B011	PCI outdoor FOX B011	PCS outdoor FOX B011	PCS outdoor DIM B011	PCS outdoor DIM B011
35 W	RCI-T 35W	no	G12	0.53	•	•	•	•	•	•	•	•	•	•					
70 W	HRI-E 70W ...	no	E27	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HRI-T 70W ...	no	G12	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HRI-TS 70W ...	no	Rx7s	1.00	•	•	•	•	•	•	•	•	•	•		•			
	RCI-T 70W	no	G12	1.00	•	•	•	•	•	•	•	•	•	•		•			
	RCI-TS 70W	no	Rx7s	1.00	•	•	•	•	•	•	•	•	•	•		•			
100 W	HRI-E 100 W ...	no	E27	1.20	•						•	•			•			◦	
150 W	HRI-T 150W ...	no	G12	1.80	•			•			•	•	•	•	•			◦	
	HRI-E 150W ...	no	E27	1.80	•			•			•	•	•	•	•			◦	
	HRI-TS 150W ...	no	Rx7s	1.80	•			•			•	•	•	•	•			◦	
	RCC-TS 150W ...	no	Rx7s	1.80	•			•			•	•	•	•	•			◦	
	RCI-T 150W ...	no	G12	1.80	•			•			•	•	•	•	•			◦	
	RCI-TS 150W ...	no	Rx7s	1.80	•			•			•	•	•	•	•			◦	

For an up-to-date lamp matrix go to www.tridonic.com

◦ The lamp is not approved for use with dimmers.

Lamp matrix – Metal halide lamps

Metal halide lamps, 22–150 W

Philips

Wattage	Description	Dimmable	Lamp holder	Current A	PCI B011 Single	PCI pcb B011 Single	PCI B011 Twin	PCI FOX B011	PCI B021 Twin	PCI B521 Twin	PCI PRO C011 Single	PCI PRO pcb C011 Single	PCI PRO C021 Single	PCI PRO C521 Single	PCIS outdoor FOX B011	PCI outdoor FOX B011	PCS outdoor FOX B011	PCIS outdoor DIM B011	PCS outdoor DIM B011
20 W	CDM-R111 20W	no	GX8.5	0.23	•			•			•	•	(•)	(•)					
22 W	CDM-TM 20W	no	PGJ5	0.22							•	•	(•)	(•)					
35 W	CDM-R 35W	no	E27	0.53	•	•	•	•	•	•	•	•	•	•					
	CDM-R111	no	GX8.5	0.53	•	•	•	•	•	•	•	•	•	•					
	CDM-T 35W	no	G12	0.53	•	•	•	•	•	•	•	•	•	•					
	CDM-T 35W Elite	no	G12	0.53	•	•	•	•	•	•	•	•	•	•					
	CDM-TC 35W	no	G8.5	0.53	•	•	•	•	•	•	•	•	•	•					
	CDM-TM 35W	no	PGJ5																
70 W	CDM-ET 70W	yes	E27	1.00													•		•
	CDM-R 70W	no	E27	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CDM-R111 70W	no	GX8.5	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CDM-T 70W	no	G12	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CDM-T Elite 70W	no	G12	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CDM-TC 70W	no	G8.5	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CDM-TD 70W	no	Rx7s	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CDM-TP 70W	no	PG12-2	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CDM-TT 70W	yes	E27	1.00													•		•
	CDO-ET 70W	down to 60 %	E27	1.00													•		•
	CDO-TT 70W	down to 60 %	E27	1.00													•		•
	MHN-T 70W	no	PG12-2	1.00	•	•	•	•	•	•	•	•	•	•		•			
	MHN-TD 70W	no	Rx7s	1.00	•	•	•	•	•	•	•	•	•	•		•			
	MHW-TD 70W	no	Rx7s	1.00	•	•	•	•	•	•	•	•	•	•		•			
100 W	CDO-ET 100W	down to 60 %	E27	1.20	•						•	•			•			•	
	CDO-TT 100W	down to 60 %	E27	1.20	•						•	•			•			•	
150 W	CDM-ET 150W	no	E40	1.80	•			•			•	•	•	•	•			◦	
	CDM-SA/T	no	G12	1.80	•			•			•	•	•	•	•			◦	
	CDM-T150W	no	G12	1.80	•			•			•	•	•	•	•			◦	
	CDM-TD 150W	no	Rx7s	1.80	•			•			•	•	•	•	•			◦	
	CDM-TP 150W	no	PGX12-2	1.80															
	CDM-TT	no	E40	1.80	•			•			•	•	•	•	•			◦	
	CDO-ET 150W	down to 60 %	E40	1.80	•			•			•	•	•	•	•			•	
	CDO-TT 150W	down to 60 %	E40	1.80	•			•			•	•	•	•	•			•	
	MHN-T 150W	no	RGx12-2	1.80	•			•			•	•	•	•	•			◦	
	MHN-TD 150W	no	Rx7s	1.80	•			•			•	•	•	•	•			◦	
	MHT-T 150W	no	RGx12-2	1.80	•			•			•	•	•	•	•			◦	
	MHW-TD 150W	no	Rx7s	1.80	•			•			•	•	•	•	•			◦	

For an up-to-date lamp matrix go to www.tridonic.com

(•) In preparation.

◦ The lamp is not approved for use with dimmers.

Lamp matrix – Metal halide lamps

Metal halide lamps, 20–150 W

Sylvania

Wattage	Description	Dimmable	Lamp holder	Current A	PCI B011 Single	PCI pcb B011 Single	PCI B011 Twin	PCI FOX B011	PCI B021 Twin	PCI B521 Twin	PCI PRO C011 Single	PCI PRO pcb C011 Single	PCI PRO C021 Single	PCI PRO C521 Single	PCS outdoor FOX B011	PCI outdoor FOX B011	PCS outdoor FOX B011	PCS outdoor DIM B011	PCS outdoor DIM B011
20 W	Britespot ES50 20W	no	GX10	0.23	•			•			•	•	(•)	(•)					
	CMI-TC 20W Superball	no	G8.5	0.20	•			•			•	•	(•)	(•)					
35 W	BriteSpot ES50 35W	no	GX10	0.53	•	•	•	•	•	•	•	•	•	•					
	BriteSpot ES111 35W	no	GX10	0.53	•	•	•	•	•	•	•	•	•	•					
	CMI-T 35W Superball	no	G12	0.53	•	•	•	•	•	•	•	•	•	•					
	CMI-TC 35W Superball	no	G8.5	0.53	•	•	•	•	•	•	•	•	•	•					
70 W	Britespot ESD111 70W	no	GX10	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CMI-T 70W WDL	no	G12	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CMI-T 70W Superball	no	G12	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CMI-TD 70W Superball	no	Rx7s	1.00	•	•	•	•	•	•	•	•	•	•		•			
	CMI-TC 70W Superball	no	G8.5	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HSI-T 70W	no	G12	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HSI-TD 70W	no	Rx7s	1.00	•	•	•	•	•	•	•	•	•	•		•			
100 W	HSI-MP 100W ...	no	E27	1.20	•						•	•			•			◦	
	HSI-TD 100W ...	no	Rx7s	1.20	•						•	•			•			◦	
	MP 100W CL	no	E27	1.20	•						•	•			•			◦	
150 W	CMI-T 150W WDL	no	G12	1.80	•			•			•	•	•	•	•			◦	
	CMI-T 150W Superball	no	G12	1.80	•			•			•	•	•	•	•			◦	
	CMI-TD 150W Superball	no	Rx7s-24	1.80	•			•			•	•	•	•	•			◦	
	HSI-T 150W ...	no	G12	1.80	•			•			•	•	•	•	•			◦	
	HSI-TD 150W ...	no	Rx7s	1.80	•			•			•	•	•	•	•			◦	

Metal halide lamps, 35–150 W

Venture

Wattage	Description	Dimmable	Lamp holder	Current A	PCI B011 Single	PCI pcb B011 Single	PCI B011 Twin	PCI FOX B011	PCI B021 Twin	PCI B521 Twin	PCI PRO C011 Single	PCI PRO pcb C011 Single	PCI PRO C021 Single	PCI PRO C521 Single	PCS outdoor FOX B011	PCI outdoor FOX B011	PCS outdoor FOX B011	PCS outdoor DIM B011	PCS outdoor DIM B011
35 W	HIE 35W x/x	no	E27	0.53	•	•	•	•	•	•	•	•	•	•					
70 W	HIE 70W C/U/LU/4K	no	E27	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HIE 70W U/LU/4K	no	E27	1.00	•	•	•	•	•	•	•	•	•	•		•			
	HIE 70W x/x	yes	E27	1.00													•		•
100 W	HIE 100W C/U/LU/4K	no	E27	1.20	•						•	•			•			◦	
	HIE 100W U/LU/4K	no	E27	1.20	•						•	•			•			◦	
	HIE 100W x/x	no	E27	1.20															
	HIE 100W C/U/LU/3K	no	E27	1.20	•						•	•			•			◦	
150 W	HIE 150W C/U/LU/4K	no	E27	1.80	•			•			•	•	•	•	•			◦	
	HIE 150W x/x	no	Rx7s	1.80															
	HIE 150W x/x	no	E27	1.80															
	HIT 150W U/LU/T38/4K	no	E27	1.80	•			•			•	•	•	•	•			◦	

For an up-to-date lamp matrix go to www.tridonic.com

(•) In preparation.

◦ The lamp is not approved for use with dimmers.

Lamp matrix – High-pressure sodium lamps

High-pressure sodium lamps, 70–150 W

Aura

Wattage	Description	Dimmable	Lamp holder	Current A	PCIS outdoor FOX B011	PCI outdoor FOX B011	PCS outdoor FOX B011	PCIS outdoor DIM B011	PCS outdoor DIM B011
70 W	Sodinettes ST 70W	yes	E27	1.00			•		•
150 W	Sodinettes ST 150W	yes	E40	1.80	•			•	

High-pressure sodium lamps, 70–150 W

BLV

Wattage	Description	Dimmable	Lamp holder	Current A	PCIS outdoor FOX B011	PCI outdoor FOX B011	PCS outdoor FOX B011	PCIS outdoor DIM B011	PCS outdoor DIM B011
70 W	NAH - E 70W	yes	E27	1.00			•		•
	NAH - TR 70W	yes	Rx7s	1.00			•		•
150 W	HST-DE 150W	yes	Fc2	1.80	•			•	
	HST-DE 150W	yes	Rx7s	1.80	•			•	
	NAH-T 150W	yes	E40	1.80	•			•	

High-pressure sodium lamps, 70–150 W

GE

Wattage	Description	Dimmable	Lamp holder	Current A	PCIS outdoor FOX B011	PCI outdoor FOX B011	PCS outdoor FOX B011	PCIS outdoor DIM B011	PCS outdoor DIM B011
70 W	LU 70/90W ...	yes	E27	1.00			•		•
	LU 70W RFL	yes	E27	1.00			•		•
100 W	LU 100W ...	yes	E40	1.20	•			•	
	LU 100W ...	yes	E27	1.20	•			•	
	TCF 100W	yes	E40	1.20	•			•	
150 W	LU 150W	yes	E40	1.80	•			•	
	LU 150W	yes	E27	1.80	•			•	
	TCF 150W	yes	E40	1.80	•			•	

Lamp matrix – High-pressure sodium lamps

High-pressure sodium lamps, 70–150 W

Iwasaki

Wattage	Description	Dimmable	Lamp holder	Current A	PCS outdoor FOX B011	PCI outdoor FOX B011	PCS outdoor FOX B011	PCS outdoor DIM B011	PCS outdoor DIM B011
70 W	NH 70W ./HV/...	yes	E27	1.00			•		•
	NH 70W F/HV/I	yes	E27	1.00					
	NHT 70W I	yes	E27	1.00					
100 W	NH 100W F	yes	E40	1.20	•			•	
	NH 100W F/HV/I	yes	E40	1.20					
	NHT 100W	yes	E40	1.20	•			•	
	NHT 100W I	yes	E40	1.20					
	NHT 100W SDX	yes	E27	1.20					
150 W	NH 150W F/HV/I	yes	E40	1.80					
	NH 150W ... (100 V/1.8 A)	yes	E40	1.80	•			•	
	NHT 150W SDX	yes	E27	1.80					
	NHT 150W I	yes	E40	1.80					
	NHT 150W ... (100 V/1.8 A)	yes	E40	1.80	•			•	

High-pressure sodium lamps, 70–150 W

Osram

Wattage	Description	Dimmable	Lamp holder	Current A	PCS outdoor FOX B011	PCI outdoor FOX B011	PCS outdoor FOX B011	PCS outdoor DIM B011	PCS outdoor DIM B011
70 W	NAV E 70W I...	yes	E27	1.00					
	NAV E 70W...	yes	E27	1.00			•		•
	NAV T 70W...	yes	E27	1.00			•		•
	NAV TS 70W Super 4Y	yes	Rx7s	1.00			•		•
100 W	NAV E 100W	yes	E40	1.20	•			•	
	NAV T 100W	yes	E40	1.20	•			•	
150 W	NAV E 150W	yes	E40	1.80	•			•	
	NAV T 150W	yes	E40	1.80	•			•	
	NAV TS 150W ...	yes	Rx7s	1.80	•			•	

Lamp matrix – High-pressure sodium lamps

High-pressure sodium lamps, 70–150 W

Philips

Wattage	Description	Dimmable	Lamp holder	Current A	PCS outdoor FOX B011	PCI outdoor FOX B011	PCS outdoor FOX B011	PCS outdoor DIM B011	PCS outdoor DIM B011
70 W	SON 70W ...	yes	E27	1.00			•		•
	SON 70W E	yes	E27	1.00			•		•
	SON 70W I	yes	E27	1.00					
	SON Hg free 70W ...	yes	E27	1.00			•		•
	SON-T 70W...	yes	E27	1.00			•		•
	SON-T Hg free 70W ...	yes	E27	1.00			•		•
	SON-T plus 70W ...	yes	E27	1.00			•		•
100 W	SDW-T 100W (White SON)	yes	PG12-2						
	SDW-TG 100W (White SON)	yes	PG12-2						
	SON plus 100W	yes	E40	1.20	•			•	
	SON...100W	yes	E40	1.20	•			•	
	SON-T Hg free 100W	yes	E40	1.20	•			•	
	SON-T plus 100W	yes	E40	1.20	•			•	
	SON-T...100W	yes	E40	1.20	•			•	
150 W	SON 150W E	yes	E40	1.80	•			•	
	SON Comfort 150W	yes	E40	1.80	•			•	
	SON Hg free 150W	yes	E40	1.80	•			•	
	SON plus 150W	yes	E40	1.80	•			•	
	SON T Deco 150W	yes	E40	1.80					
	SON...150W	yes	E40	1.80	•			•	
	SON-T Comfort 150W	yes	E40	1.80	•			•	
	SON-T Hg free 150W	yes	E40	1.80	•			•	
	SON-T PIA plus 150W E	yes	E40	1.80	•			•	
	SON-T plus 150W	yes	E40	1.80	•			•	
	SON-T...150W	yes	E40	1.80	•			•	

HID electronic ballasts

Lamp matrix – High-pressure sodium lamps

High-pressure sodium lamps, 70–150 W

Radium

Wattage	Description	Dimmable	Lamp holder	Current A	PCS outdoor FOX B011	PCI outdoor FOX B011	PCS outdoor FOX B011	PCS outdoor DIM B011	PCS outdoor DIM B011
70 W	RNP-E 70W	yes	E27	1.00			•		•
	RNP-E 70W I	yes	E27	1.00					
	RNP-T 70W	yes	E27	1.00			•		•
	RNP-TS 70W	yes	Rx7s	1.00			•		•
150 W	RNP-E 150W ...	yes	E40	1.80	•			•	
	RNT-T 150W ...	yes	E40	1.80	•			•	
	RNT-TS	yes	Rx7s	1.80	•			•	

High-pressure sodium lamps, 70–150 W

Sylvania

Wattage	Description	Dimmable	Lamp holder	Current A	PCS outdoor FOX B011	PCI outdoor FOX B011	PCS outdoor FOX B011	PCS outdoor DIM B011	PCS outdoor DIM B011
70 W	SHP - S 70W ...	yes	E27	1.00			•		•
	SHP 70W CO-E	yes	E27	1.00			•		•
	SHP 70W ...	yes	E27	1.00			•		•
	SHP 70W I	yes	E27	1.00					
	SHP-T 70W ...	yes	E27	1.00			•		•
	SHP-TD 70W	yes	E27	1.00			•		•
	SHP-TS 70W ...	yes	E27	1.00			•		•
100 W	SHP-S 100W	yes	E40	1.20	•			•	
	SHP-T 100W	yes	E40	1.20	•			•	
	SHP-TS 100W	yes	E40	1.20	•			•	
150 W	SHP-S 150W ...	yes	E40	1.80	•			•	
	SHP-T 150W ...	yes	E40	1.80	•			•	
	SHP-TS 150W ...	yes	E40	1.80	•			•	

High-pressure sodium lamps, 150 W

Venture

Wattage	Description	Dimmable	Lamp holder	Current A	PCS outdoor FOX B011	PCI outdoor FOX B011	PCS outdoor FOX B011	PCS outdoor DIM B011	PCS outdoor DIM B011
150 W	HPST 150W	yes	E40	1.80	•			•	

Electronic ballasts for HID

High-intensity discharge lamps only achieve the full potential of their impressive properties when operated on electronic ballasts – in particular the powerCONTROL PCI units from Tridonic. These units operate metal halide lamps and sodium lamps extremely gently, compensate for fluctuations in mains voltage and shut-down the lamps safely when they reach the end of their lives.

The powerCONTROL PCI range has been designed for optimum design and functionality to suit the particular application. The range includes one and two-lamp versions for luminaire installation and versions with cable clamps for separate mounting. PCIS outdoor devices from Tridonic have been designed specifically to meet the greater requirements of outdoor applications.

Lighting comfort and quality

An operating frequency between 130 kHz and 160 Hz ensures that the light is flicker-free and prevents acoustic resonance. The electronically controlled constant and precise output ensures that the colour stability and luminous flux of high-intensity discharge lamps with either quartz or ceramic burners remain at their specified levels throughout the life of the lamps. The result is extremely small deviations in colour temperatures and excellent luminous efficacy in lighting systems.

The digital control technology of powerCONTROL PCI reduces the restart time by as much as 50 %. EMC interference during ignition is therefore reduced by up to 95 % compared with conventional solutions. The basis for ideal ignition is the successful pulse-pause technology from Tridonic.

Impressive economy

The powerCONTROL PCI devices offer constant power control, square-wave operation and a particularly low current ripple to ensure that lamps are operated in accordance with manufacturers' specifications and therefore continue operating properly throughout their long lives.



PCI 35/70 PRO C011
with x!tec technology

Innovative x!tec-technology results in small tolerances so the powerCONTROL PCI ballasts are absolutely reliable even at high ambient temperatures. The unit shuts down automatically if a lamp is faulty or missing or if the operating temperature rises above a certain threshold to ensure high levels of safety.

Constant high quality

High-quality components, intelligent circuit design and extensive testing under rated and extreme conditions give powerCONTROL PCI ballasts from Tridonic their special character. As a result, they achieve a high average life of 50,000 hours – with a probability of failure of less than 10 %; in other words, an average failure rate of 0.2 % per 1,000 hours of operation.

The consistently high reliability of the powerCONTROL PCI ballasts from Tridonic is also due to the production processes certified to ISO 9001. Fully automatic manufacture also ensures constant reproducible quality of the highest level. All the ballasts are subjected to 100 % final testing and safety testing.

Standards and approval marks

powerCONTROL PCI electronic ballasts from Tridonic are ENEC certified, carry the CE mark and meet all the relevant European as well as international standards relating to safety, operation and electromagnetic compatibility (EMC).

Innovations for luminaire installation

powerCONTROL PCI electronic ballasts in the C011 and B011 series are designed for luminaire installation. The PCI PRO C011 series in particular has impressive thermal behaviour. This enables them to be used reliably even in temperature-critical luminaires. In making the lifetime values for different operating temperatures fully transparent, Tridonic is acting as a pioneer and offering greater freedom for luminaire designers. Multi-watt devices are another highlight. In their successful compact design powerCONTROL PCI PRO C011 units now combine two wattages in the same device, which increases flexibility in warehouse management and saves on costs for luminaire certification. The wattage is selected via connection of the appropriate supply terminal.

Do you speak DALI?

If you do, the powerCONTROL PCI FOX B011 devices from Tridonic will speak your language. FOX stands for **F**ixed **O**utput **eX**tended – with “extended” referring to the digital DALI/DSI interface. This enables individual addressing, powerless switching and retrieval of status information. High-intensity discharge lamps can therefore be easily integrated in lighting control systems. For example, there is no need any more to open-up the luminaire to see whether the problem is a lamp fault or an overtemperature cutout.

Specialist in surface-mounted applications

powerCONTROL PCI PRO C021 ballasts have set a new standard in ease of installation. With duplicated power terminals, through-wiring of cables with cross-sections of up to 2.5 mm² is child's play. The three separate strain relief channels hold the cables safely and reliably. A unique feature is that the entire installation process can be completed without the need for a screwdriver – plug & play in its purest form! The powerCONTROL PCI PRO C521 devices are surface-mount devices with ready-made ST or GST lamp cables to make it even easier to connect luminaires in suspended ceilings. Two-lamp surface-mount devices are available on the successful B021 platform with fitted lamp cables as B521.

Robust and durable: PCIS outdoor for outdoor applications

Lighting for streets, tunnels, buildings and squares places special demands on the luminaires. Wind, weather and long operating times make small differences very noticeable. With a life of 60,000 hours and more, PCIS outdoor B011 is one of the most durable electronic components on the market. An important factor here is the special filling compound that perfectly meets the requirements of the electronic components and provides effective protection against moisture, dust and vibrations. Enhanced protection against mains transients and automatic shutdown of lamps at their end of life increase the reliability and safety of HI and HS lighting systems. The dimmable powerCONTROL PCIS outdoor DIM B011 versions enable the level of light to be reduced at the quieter times of night, which means that enormous amounts of energy can be saved. These devices are controlled either via a mains control line (stepDIM) or via a digital DALI/DSI signal.

Technical Information

The latest technical information can be downloaded from the internet: www.tridonic.com, menu “Technical Information”, submenu “Data sheets”

Personal enquiries

A form for personal enquiries is available on the internet at www.tridonic.com, menu “Contact”, submenu “Enquiry”

Lamp matrix

Which control gear for which lamp?

The latest lamp matrix can be downloaded from the internet at www.tridonic.com, menu “Technical Information”, submenu “Lamp matrix”



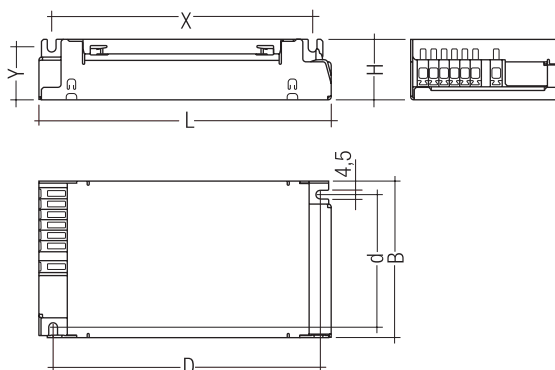
NEW

powerCONTROL PCI PRO C011 Single

Build-in applications

Product description

- For metal halide lamps
 - Also for mobile luminaires with connectors
 - Pulse packets for increased ignition energy (pulseCONTROL technology)
 - With patented circuit elements
 - Flicker-free light
 - Colour stability thanks to constant power
 - Guaranteed long life
 - No acoustic resonance
 - Safety shutdown if a lamp is faulty or missing
 - Greatly reduced reignition time
 - Hardly any EMC interference in the ignition phase
 - Automatic shutdown on overheating
 - Multiwatt: two lamp wattages with one device
 - Casing: aluminium (PCI 20/22 PRO steel)
 - Plug-in terminals up to 2.5 mm²
 - Excellent thermal behaviour
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	220 – 240 V
Rated supply voltage AC	198 – 254 V
Rated supply voltage DC	198 – 320 V (at 22, 70, 150 W)
Mains frequency	50 / 60 Hz
Operating frequency	145 Hz
Max. ignition voltage	5 kVp
Type of protection	IP20

Ordering data

Output, lamp	Lamp type	Type	Article number
For luminaires with 1 lamp			
20 / 22 W	HI	PCI 20/22 PRO C011	86458600
35 / 70 W	HI	PCI 35/70 PRO C011	86458601
100 / 150 W	HI	PCI 100/150 PRO C011	86458602

Packaging PCI 20 / 22: 15 pieces/carton, 900 pieces/pallet

Packaging PCI 35 / 70: 15 pieces/carton, 600 pieces/pallet

Packaging PCI 100 / 150: 15 pieces/carton, 600 pieces/pallet



Product matrix, page 233

Lamp matrix, page 233

Wiring diagrams and installation examples, page 258

Specific technical data

Type	Dimensions LxWxH	Hole spacing D	Hole spacing d	Hole spacing (X)	Hole spacing (Y)	Weight	Mains current	Lamp wattage	Circuit power	λ	Max. cable length to lamp	tc point	Ambient temperature ta
For luminaires with 1 lamp													
PCI 20/22 PRO C011	90x59x29 mm	78–80 mm	47.0–49.0 mm	75.5 mm	25 mm	0.150 kg	0.1/0.10 A	20/22 W	23.0/25.5 W	0.95	2 m/160 pF	75 °C	-25 ... +55 °C
PCI 35/70 PRO C011	100x75x29 mm	88–90 mm	63.5–65.5 mm	85.0 mm	25 mm	0.195 kg	0.2/0.35 A	39/73 W	43.5/79.0 W	0.97	5 m/400 pF	80 °C	-25 ... +50 °C
PCI 100/150 PRO C011	140x75x29 mm	128–130 mm	63.5–65.5 mm	125.0 mm	25 mm	0.305 kg	0.5/0.70 A	100/147 W	108.0/158.5 W	0.97	5 m/400 pF	80 °C	-25 ... +50 °C

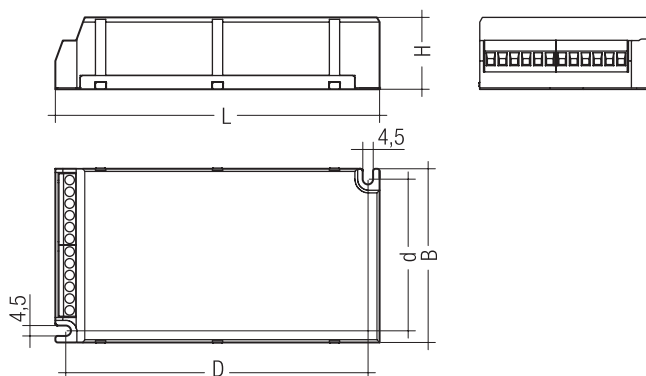


powerCONTROL PCI B011 Single

Build-in applications

Product description

- For metal halide lamps
 - Also for mobile luminaires with connectors
 - Pulse packets for increased ignition energy (pulseCONTROL technology)
 - With patented circuit elements
 - Flicker-free light
 - Colour stability thanks to constant power
 - Guaranteed long life
 - No acoustic resonance
 - Safety shutdown if a lamp is faulty or missing
 - Greatly reduced reignition time
 - Hardly any EMC interference in the ignition phase
 - Automatic shutdown on overheating
 - Lower section of casing made of steel
 - Upper section of casing made of Makrolon, VO material, black
 - Screw terminals: $\leq 1.5 \text{ mm}^2$ for stranded wire, $\leq 2.5 \text{ mm}^2$ for solid wire
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	220 – 240 V
Rated supply voltage AC	198 – 254 V
Rated supply voltage DC	153 – 320 V
Mains frequency	0 / 50 / 60 Hz
Operating frequency	145 Hz
Max. ignition voltage	5 kVp
Type of protection	IP20

Ordering data

Lamp wattage	Lamp type	Type	Article number
For luminaires with 1 lamp			
1 x 35 W	HI	PCI 0035 B011	86457897

Packaging: 15 pieces/carton, 900 pieces/pallet



Product matrix, page 233

Lamp matrix, page 233

Wiring diagrams and installation examples, page 258

Specific technical data

Type	Dimensions LxWxH	Hole spacing D	Hole spacing d	Weight	Mains current	Lamp wattage	Circuit power	λ	Max. cable length to lamp	tc point	Ambient temperature t_a
For luminaires with 1 lamp											
PCI 0035 B011	90 x 60 x 28 mm	78.5 – 82.5 mm	48.5 – 52.5 mm	0.16 kg	0.2 A	39 W	44.5 W	0.97	1.5 m / 120 pF	75 °C	-25 ... +50 °C



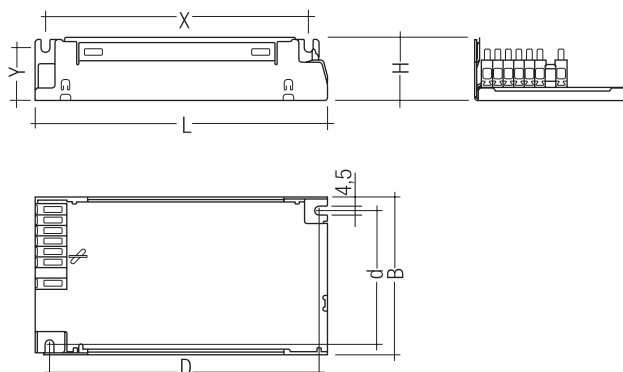
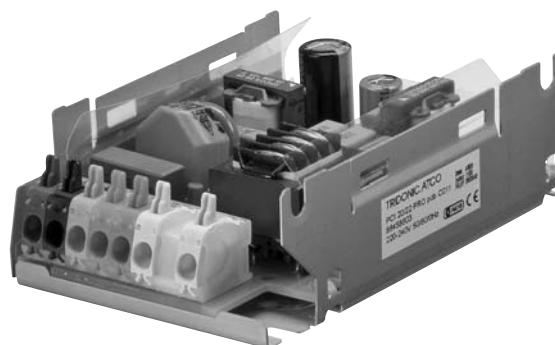
NEW

powerCONTROL PCI PRO pcb C011 Single

Build-in applications

Product description

- For metal halide lamps
 - Also for mobile luminaires with connectors
 - Pulse packets for increased ignition energy (pulseCONTROL technology)
 - With patented circuit elements
 - Flicker-free light
 - Colour stability thanks to constant power
 - Guaranteed long life
 - No acoustic resonance
 - Safety shutdown if a lamp is faulty or missing
 - Greatly reduced reignition time
 - Hardly any EMC interference in the ignition phase
 - Automatic shutdown on overheating
 - Multiwatt: two lamp wattages with one device
 - Plug-in terminals up to 2.5 mm²
 - Lower section of casing made of aluminium (PCI 20/22 PRO pcb steel)
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	220 – 240 V
Rated supply voltage AC	198 – 254 V
Rated supply voltage DC	198 – 320 V (at 22, 70, 150 W)
Mains frequency	50 / 60 Hz
Operating frequency	145 Hz
Max. ignition voltage	5 kVp

Ordering data

Output, lamp	Lamp type	Type	Article number
For luminaires with 1 lamp			
20 / 22 W	HI	PCI 20/22 PRO pcb C011	86458603
35 / 70 W	HI	PCI 35/70 PRO pcb C011	86458604
100 / 150 W	HI	PCI 100/150 PRO pcb C011	86458605

Packaging: 1 Piece/ESD Bag, 15 pieces/carton, 600 pieces/pallet



Product matrix, page 233

Lamp matrix, page 233

Wiring diagrams and installation examples, page 258

Specific technical data

Type	Dimensions LxWxH	Hole spacing D	Hole spacing d	Weight	Mains current	Lamp wattage	Circuit power	λ	Max. cable length to lamp	tc point	Ambient temperature ta
For luminaires with 1 lamp											
PCI 20/22 PRO pcb C011	90x60x29 mm	78–80 mm	47.0–49.0 mm	0.120 kg	0.1/0.10 A	20/22 W	23.0/25.5 W	0.95	2 m/160 pF	90 °C	-25 ... +50 °C
PCI 35/70 PRO pcb C011	100x75x29 mm	88–90 mm	63.5–65.5 mm	0.165 kg	0.2/0.35 A	39/73 W	43.5/79.0 W	0.97	5 m/400 pF	90 °C	-25 ... +55 °C
PCI 100/150 PRO pcb C011	140x75x29 mm	128–130 mm	63.5–65.5 mm	0.270 kg	0.5/0.70 A	100/147 W	108.0/158.5 W	0.97	5 m/400 pF	90 °C	-25 ... +45 °C

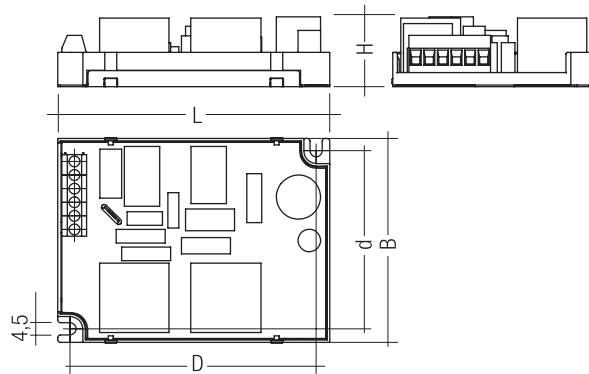
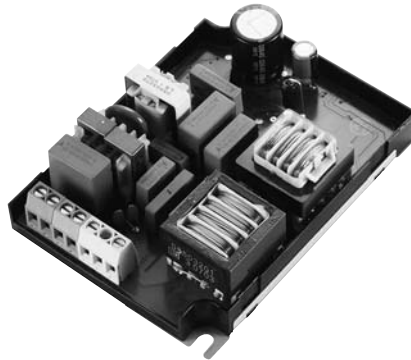


powerCONTROL PCI pcb B011 Single

Build-in applications

Product description

- Also for mobile luminaires with connectors
 - Pulse packets for increased ignition energy (pulseCONTROL technology)
 - Flicker-free light
 - Colour stability thanks to constant power
 - Guaranteed long life
 - No acoustic resonance
 - Safety shutdown if a lamp is faulty or missing
 - Greatly reduced reignition time
 - Hardly any EMC interference in the ignition phase
 - Automatic shutdown on overheating
 - Screw terminals: $\leq 1.5 \text{ mm}^2$ for stranded wire, $\leq 2.5 \text{ mm}^2$ for solid wire
 - Lower section of casing made of steel
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	220 – 240 V
Rated supply voltage AC	198 – 254 V
Rated supply voltage DC	153 – 320 V
Mains frequency	0 / 50 / 60 Hz
Operating frequency	145 Hz
Max. ignition voltage	5 kVp



Product matrix, page 233

Lamp matrix, page 233

Wiring diagrams and installation examples, page 258

Ordering data

Lamp wattage	Lamp type	Type	Article number
For luminaires with 1 lamp			
1 x 35 W	HI	PCI 0035 pcb B011	86458250

Packaging: 1 Piece/ESD Bag, 20 pieces/carton, 600 pieces/pallet

Specific technical data

Type	Dimensions LxWxH	Hole spacing D	Hole spacing d	Weight	Mains current	Lamp wattage	Circuit power	λ	Max. cable length to lamp	Ambient temperature t_a
For luminaires with 1 lamp										
PCI 0035 pcb B011	90x60x27 mm	78.5–82.5 mm	48.5–52.5 mm	0.15 kg	0.2 A	39 W	44 W	0.97	1.5 m/120 pF	-25 ... +50 °C

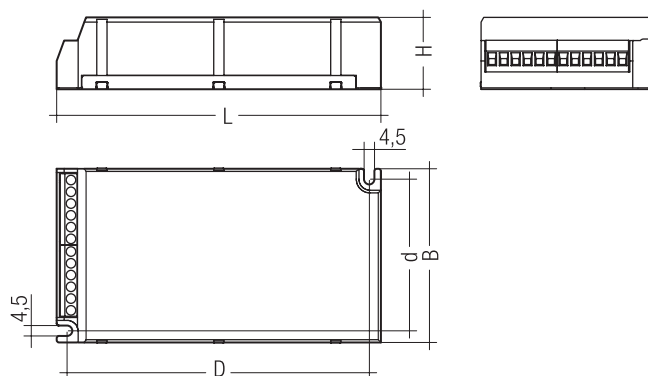


powerCONTROL PCI B011 Twin

Build-in applications

Product description

- For metal halide lamps
 - Also for mobile luminaires with connectors
 - Pulse packets for increased ignition energy (pulseCONTROL technology)
 - With patented circuit elements
 - Flicker-free light
 - Colour stability thanks to constant power
 - Guaranteed long life
 - No acoustic resonance
 - Two independent lamp output circuits
 - Safety shutdown of an affected lamp circuit if a lamp is missing or faulty
 - Greatly reduced reignition time
 - Hardly any EMC interference in the ignition phase
 - Automatic shutdown on overheating
 - Lower section of casing made of steel
 - Upper section of casing made of Makrolon, VO material, black
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	220 – 240 V
Rated supply voltage AC	198 – 254 V
Rated supply voltage DC	153 – 320 V
Mains frequency	0 / 50 / 60 Hz
Operating frequency	145 Hz
Max. ignition voltage	5 kVp
Type of protection	IP20

Ordering data

Lamp wattage	Lamp type	Type	Article number
For luminaires with 2 lamps			
2 x 35 W	HI	PCI 2/35 B011	86458207
2 x 70 W	HI	PCI 2/70 B011	86458209

Packaging: 15 pieces/carton, 600 pieces/pallet



Product matrix, page 233

Lamp matrix, page 233

Wiring diagrams and installation examples, page 258

Specific technical data

Type	Dimensions LxWxH	Hole spacing D	Hole spacing d	Weight	Mains current	Lamp wattage	Circuit power	λ	Max. cable length to lamp	tc point	Ambient temperature t_a
For luminaires with 2 lamps											
PCI 2/35 B011	140x75x31 mm	128.5–132.5 mm	63.5–67.5 mm	0.32 kg	0.38 A	2x39 W	87 W	0.97	per 1.5 m/120 pF	65 °C	-25 ... +50 °C
PCI 2/70 B011	170x75x31 mm	158.5–162.5 mm	63.5–67.5 mm	0.41 kg	0.70 A	2x72 W	158 W	0.97	per 1.5 m/120 pF	70 °C	-25 ... +40 °C



powerCONTROL PCI FOX B011

Build-in applications

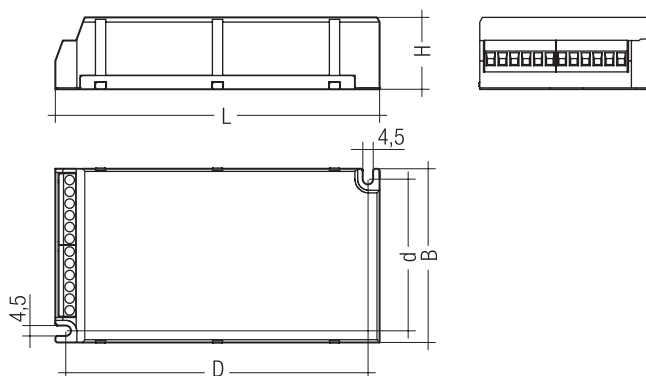
Product description

- For metal halide lamps
- Also for mobile luminaires with connectors
- Pulse packets for increased ignition energy (pulseCONTROL technology)
- Switching possible via mains or powerless via the digital interface
- Noise-free precise control via DALI or DSI signal
- On/off switching via DALI/DSI signal
- Fault reporting in DALI mode
- With patented circuit elements
- Flicker-free light
- Colour stability thanks to constant power
- Guaranteed long life
- No acoustic resonance
- Safety shutdown if a lamp is faulty or missing
- Greatly reduced reignition time
- Hardly any EMC interference in the ignition phase
- Automatic shutdown on overheating
- Screw terminals: $\leq 1.5 \text{ mm}^2$ for stranded wire, $\leq 2.5 \text{ mm}^2$ for solid wire
- Lower section of casing made of steel
- Upper section of casing made of Makrolon, VO material, black

→ For product data sheet go to www.tridonic.com, or available on request

Technical data

Rated supply voltage	220 – 240 V
Rated supply voltage AC	198 – 254 V
Rated supply voltage DC	153 – 320 V
Mains frequency	0 / 50 / 60 Hz
Operating frequency	145 Hz
Max. ignition voltage	5 kVp
Type of protection	IP20



Ordering data

Lamp wattage	Lamp type	Type	Article number
For luminaires with 1 lamp			
1 x 20 W	HI	PCI 0020 FOX B011	86458340
1 x 35 W	HI	PCI 0035 FOX B011	86458341
1 x 70 W	HI	PCI 0070 FOX B011	86458342
1 x 150 W	HI	PCI 0150 FOX B011	86458343

Packaging: 15 pieces/carton, 600 pieces/pallet



Product matrix, page 233

Lamp matrix, page 233

Wiring diagrams and installation examples, page 258

Specific technical data

Type	Dimensions LxWxH	Hole spacing D	Hole spacing d	Weight	Mains current	Lamp wattage	Circuit power	λ	Max. cable length to lamp	tc point	Ambient temperature t_a
For luminaires with 1 lamp											
PCI 0020 FOX B011	170 x 75 x 28 mm	88.5 – 92.5 mm	63.5 – 67.5 mm	0.19 kg	0.10 A	20 W	24.5 W	0.95	1.5 m / 120 pF	80 °C	-25 ... +55 °C
PCI 0035 FOX B011	100 x 75 x 28 mm	88.5 – 92.5 mm	63.5 – 67.5 mm	0.19 kg	0.20 A	39 W	45.0 W	0.97	1.5 m / 120 pF	80 °C	-25 ... +50 °C
PCI 0070 FOX B011	140 x 75 x 31 mm	128.5 – 132.5 mm	63.5 – 67.5 mm	0.25 kg	0.35 A	72 W	80.0 W	0.97	1.5 m / 120 pF	80 °C	-25 ... +50 °C
PCI 0150 FOX B011	170 x 75 x 31 mm	158.5 – 162.5 mm	63.5 – 67.5 mm	0.37 kg	0.70 A	147 W	160.0 W	0.97	1.5 m / 120 pF	80 °C	-25 ... +50 °C



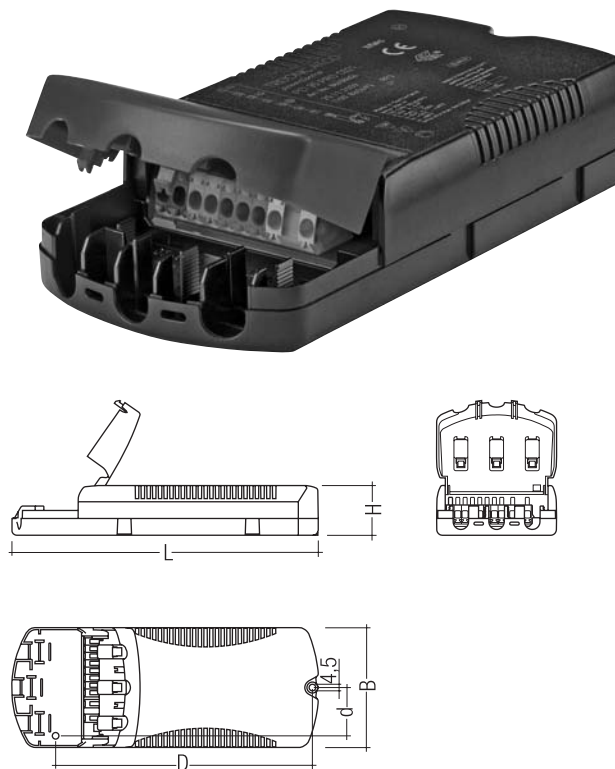
NEW

powerCONTROL PCI PRO C021 Single

Surface-mounted applications

Product description

- For metal halide lamps
 - Also for mobile luminaires with connectors
 - Pulse packets for increased ignition energy (pulseCONTROL technology)
 - With patented circuit elements
 - Flicker-free light
 - Colour stability thanks to constant power
 - Guaranteed long life
 - No acoustic resonance
 - Safety shutdown if a lamp is faulty or missing
 - Greatly reduced reignition time
 - Hardly any EMC interference in the ignition phase
 - Automatic shutdown on overheating
 - Through-wiring possible
 - No tools required for installing the terminal cover and cable clamps
 - Plug-in terminals up to 2.5 mm²
 - 3 separate strain relief channels
 - Casing: polycarbonate, black
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	220 – 240 V
Rated supply voltage AC	198 – 254 V
Rated supply voltage DC	198 – 320 V
Mains frequency	0 / 50 / 60 Hz
Operating frequency	145 Hz
Max. ignition voltage	5 kVp
Type of protection	IP20

Ordering data

Lamp wattage	Lamp type	Type	Article number
For luminaires with 1 lamp			
1 x 35 W	HI	PCI 35 PRO C021	86458606
1 x 70 W	HI	PCI 70 PRO C021	86458607
1 x 150 W	HI	PCI 150 PRO C021	86458608

Packaging: 15 pieces/carton, 600 pieces/pallet



Product matrix, page 233

Lamp matrix, page 233

Wiring diagrams and installation examples, page 258

Specific technical data

Type	Dimensions LxWxH	Hole spacing D	Hole spacing d	Diameter with cover open	Weight	Mains current	Lamp wattage	Circuit power	λ	Max. cable length to lamp	tc point	Ambient temperature ta
For luminaires with 1 lamp												
PCI 35 PRO C021	159.4x82x34 mm	125.5 mm	33 mm	> 86 mm	0.25 kg	0.20 A	39 W	43.5 W	0.97	5 m / 400 pF	80 °C	-25 ... +65 °C
PCI 70 PRO C021	159.4x82x34 mm	125.5 mm	33 mm	> 86 mm	0.26 kg	0.35 A	73 W	79.0 W	0.97	5 m / 400 pF	75 °C	-25 ... +45 °C
PCI 150 PRO C021	209.4x82x34 mm	175.5 mm	33 mm	> 86 mm	0.48 kg	0.70 A	147 W	158.5 W	0.97	5 m / 400 pF	80 °C	-25 ... +45 °C



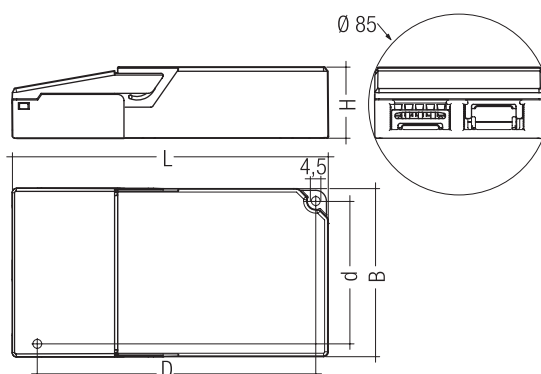
powerCONTROL PCI B021 Twin

Surface-mounted applications

Product description

- For metal halide lamps
- Also for mobile luminaires with connectors
- Pulse packets for increased ignition energy (pulseCONTROL technology)
- With patented circuit elements
- Flicker-free light
- Colour stability thanks to constant power
- Guaranteed long life
- No acoustic resonance
- Two independent lamp output circuits
- Safety shutdown of an affected lamp circuit if a lamp is missing or faulty
- Greatly reduced reignition time
- Hardly any EMC interference in the ignition phase
- Automatic shutdown on overheating
- Through-wiring possible
- No tools required for installing the terminal cover and cable clamps
- Screw terminals: $\leq 1.5 \text{ mm}^2$ for stranded wire, $\leq 2.5 \text{ mm}^2$ for solid wire
- Casing, one-part, polyamide, black

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	220 – 240 V
Rated supply voltage AC	198 – 254 V
Rated supply voltage DC	153 – 320 V
Mains frequency	0 / 50 / 60 Hz
Operating frequency	145 Hz
Max. ignition voltage	5 kVp
Type of protection	IP20

Ordering data

Lamp wattage	Lamp type	Type	Article number
For luminaires with 2 lamps			
2 x 35 W	HI	PCI 2/35 B021	86458208
2 x 70 W	HI	PCI 2/70 B021	86458210

Packaging: 15 pieces/carton, 600 pieces/pallet



Product matrix, page 233

Lamp matrix, page 233

Wiring diagrams and installation examples, page 258

Specific technical data

Type	Dimensions LxWxH	Hole spacing D	Hole spacing d	Weight	Mains current	Lamp wattage	Circuit power	λ	Max. cable length to lamp	tc point	Ambient temperature t_a
For luminaires with 2 lamps											
PCI 2/35 B021	180 x 79.5 x 34 mm	157.6 mm	68.6 mm	0.35 kg	0.38 A	2 x 39 W	87 W	0.97	per 3 m / 240 pF	65 °C	-25 ... +50 °C
PCI 2/70 B021	210 x 79.5 x 35 mm	187.6 mm	68.8 mm	0.44 kg	0.70 A	2 x 72 W	158 W	0.97	per 3 m / 240 pF	75 °C	-25 ... +45 °C



NEW

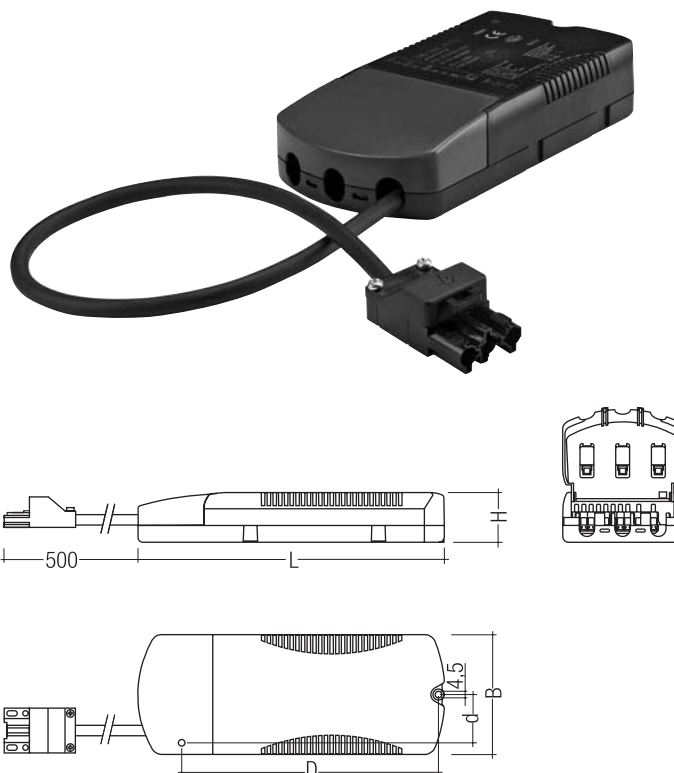
powerCONTROL PCI C521 Single ST

Surface-mounted applications

Product description

- For metal halide lamps
- Also for mobile luminaires with connectors
- Pulse packets for increased ignition energy (pulseCONTROL technology)
- With patented circuit elements
- Halogen-free lamp cable with ST18 socket
- Flicker-free light
- Colour stability thanks to constant power
- Guaranteed long life
- No acoustic resonance
- Safety shutdown if a lamp is faulty or missing
- Greatly reduced reignition time
- Hardly any EMC interference in the ignition phase
- Automatic shutdown on overheating
- Through-wiring possible
- No tools required for installing the terminal cover and cable clamps
- Plug-in terminals up to 2.5 mm²
- 3 separate strain relief channels
- Casing: polycarbonate, black

→ For product data sheet go to www.tridonic.com, or available on request



Ordering data

Lamp wattage	Lamp type	Type	Article number
For luminaires with 1 lamp			
1 x 35 W	HI	PCI 35 PRO C521 ST	86458609
1 x 70 W	HI	PCI 70 PRO C521 ST	86458610
1 x 150 W	HI	PCI 150 PRO C521 ST	86458611

Packaging: 12 pieces/carton, 288 pieces/pallet

Technical data

Rated supply voltage	220 – 240 V
Rated supply voltage AC	198 – 254 V
Rated supply voltage DC	198 – 320 V
Mains frequency	0 / 50 / 60 Hz
Operating frequency	145 Hz
Max. ignition voltage	5 kVp
Lamp cable length	0.5 m
Connection type (lamp cable)	ST
Type of protection	IP20



Product matrix, page 233

Lamp matrix, page 233

Wiring diagrams and installation examples, page 258

Specific technical data

Type	Dimensions LxWxH	Hole spacing D	Hole spacing d	Diameter with cover open	Weight	Mains current	Lamp wattage	Circuit power	λ	Max. cable length to lamp	tc point	Ambient temperature ta
For luminaires with 1 lamp												
PCI 35 PRO C521 ST	159.4 x 82 x 34 mm	125.5 mm	33 mm	> 86 mm	0.30 kg	0.20 A	39 W	43.5 W	0.97	5 m / 400 pF	80 °C	-25 ... +80 °C
PCI 70 PRO C521 ST	159.4 x 82 x 34 mm	125.5 mm	33 mm	> 86 mm	0.31 kg	0.35 A	73 W	79.0 W	0.97	5 m / 400 pF	75 °C	-25 ... +75 °C
PCI 150 PRO C521 ST	209.4 x 82 x 34 mm	175.5 mm	33 mm	> 86 mm	0.53 kg	0.70 A	147 W	158.5 W	0.97	5 m / 400 pF	80 °C	-25 ... +80 °C



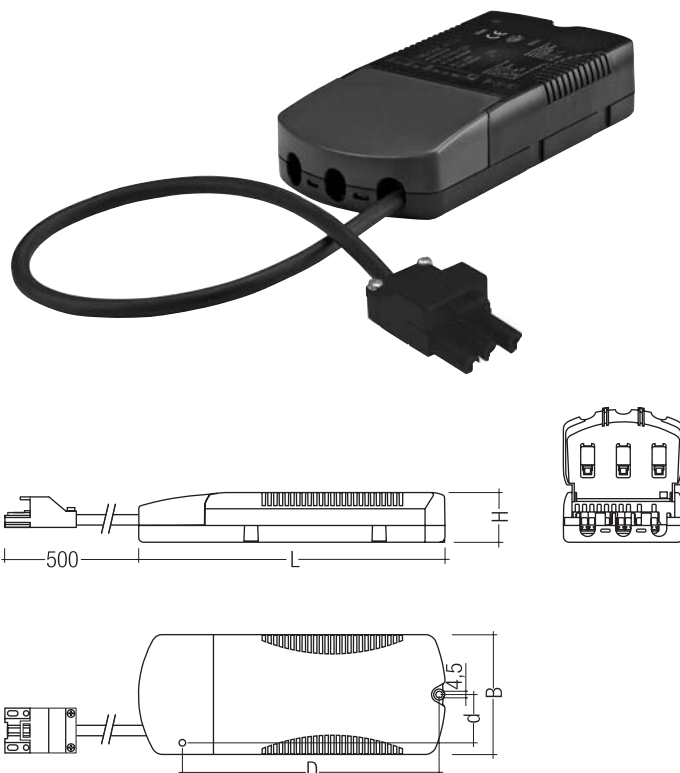
powerCONTROL PCI C521 Single GST

Surface-mounted applications

Product description

- For metal halide lamps
- Also for mobile luminaires with connectors
- Pulse packets for increased ignition energy (pulseCONTROL technology)
- With patented circuit elements
- Halogen-free lamp cable with GST18 socket
- Flicker-free light
- Colour stability thanks to constant power
- Guaranteed long life
- No acoustic resonance
- Safety shutdown if a lamp is faulty or missing
- Greatly reduced reignition time
- Hardly any EMC interference in the ignition phase
- Automatic shutdown on overheating
- Through-wiring possible
- No tools required for installing the terminal cover and cable clamps
- Plug-in terminals up to 2.5 mm²
- 3 separate strain relief channels
- Casing: polycarbonate, black

→ For product data sheet go to www.tridonic.com,
or available on request



Technical data

Rated supply voltage	220 – 240 V
Rated supply voltage AC	198 – 254 V
Rated supply voltage DC	198 – 320 V
Mains frequency	0 / 50 / 60 Hz
Operating frequency	145 Hz
Max. ignition voltage	5 kVp
Lamp cable length	0.5 m
Connection type (lamp cable)	GST
Type of protection	IP20

Ordering data

Lamp wattage	Lamp type	Type	Article number
For luminaires with 1 lamp			
1 x 35 W	HI	PCI 35 PRO C521 GST	86458906
1 x 70 W	HI	PCI 70 PRO C521 GST	86458907
1 x 150 W	HI	PCI 150 PRO C521 GST	86458908

Packaging: 12 pieces/carton, 288 pieces/pallet



Product matrix, page 233

Lamp matrix, page 233

Wiring diagrams and installation examples, page 258

Specific technical data

Type	Dimensions LxWxH	Hole spacing D	Hole spacing d	Diameter with cover open	Weight	Mains current	Lamp wattage	Circuit power	λ	Max. cable length to lamp	tc point	Ambient temperature ta
For luminaires with 1 lamp												
PCI 35 PRO C521 GST	159.4x82x34 mm	125.5 mm	33 mm	> 86 mm	0.30 kg	0.20 A	39 W	43.5 W	0.97	5 m/400 pF	80 °C	-25 ... +65 °C
PCI 70 PRO C521 GST	159.5x82x34 mm	125.5 mm	33 mm	> 86 mm	0.31 kg	0.35 A	73 W	79.0 W	0.97	5 m/400 pF	75 °C	-25 ... +50 °C
PCI 150 PRO C521 GST	209.4x82x34 mm	175.5 mm	33 mm	> 86 mm	0.53 kg	0.70 A	147 W	158.5 W	0.97	5 m/400 pF	80 °C	-25 ... +45 °C



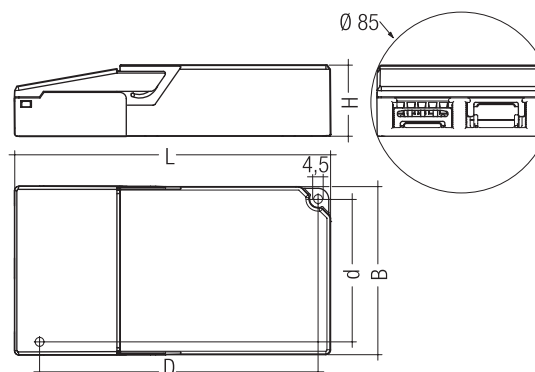
powerCONTROL PCI B521 Twin

Surface-mounted applications

Product description

- For metal halide lamps
- Also for mobile luminaires with connectors
- Pulse packets for increased ignition energy (pulseCONTROL technology)
- With patented circuit elements
- Halogen-free lamp cable with ST18 socket
- Flicker-free light
- Colour stability thanks to constant power
- Guaranteed long life
- No acoustic resonance
- Two independent lamp output circuits if a lamp is missing or faulty
- Greatly reduced reignition time
- Hardly any EMC interference in the ignition phase
- Automatic shutdown on overheating
- Through-wiring possible
- No tools required for installing the terminal cover and cable clamps
- Screw terminals: $\leq 1.5 \text{ mm}^2$ for stranded wire, $\leq 2.5 \text{ mm}^2$ for solid wire
- Casing, one-part, polyamide, black

→ For product data sheet go to www.tridonic.com, or available on request



Ordering data

Lamp wattage	Lamp type	Type	Article number
For luminaires with 2 lamps			
2 x 35 W	HI	PCI 2/35 B521 ST	86458338
2 x 70 W	HI	PCI 2/70 B521 ST	86458339

Packaging: 12 pieces/carton, 252 pieces/pallet

Technical data

Rated supply voltage	220 – 240 V
Rated supply voltage AC	198 – 254 V
Rated supply voltage DC	153 – 320 V
Mains frequency	0 / 50 / 60 Hz
Operating frequency	145 Hz
Max. ignition voltage	5 kVp
Type of protection	IP20



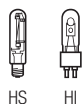
Product matrix, page 233

Lamp matrix, page 233

Wiring diagrams and installation examples, page 258

Specific technical data

Type	Dimensions LxWxH	Hole spacing D	Hole spacing d	Weight	Mains current	Lamp wattage	Circuit power	λ	Max. cable length to lamp	tc point	Ambient temperature t_a
For luminaires with 2 lamps											
PCI 2/35 B521 ST	180x79.5x34 mm	157.6 mm	68.6 mm	0.45 kg	0.38 A	2x39 W	87 W	0.97	per 3 m / 240 pF	65 °C	-25 ... +50 °C
PCI 2/70 B521 ST	210x79.5x35 mm	187.6 mm	68.6 mm	0.54 kg	0.70 A	2x72 W	158 W	0.97	per 3 m / 240 pF	75 °C	-25 ... +45 °C



NEW

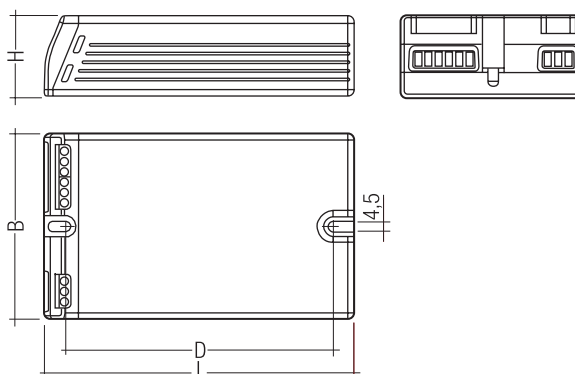
powerCONTROL PCIS, PCI, PCS outdoor FOX B011

Build-in applications

Product description

- Pulse packets for increased ignition energy (pulseCONTROL technology)
- Flicker-free light
- Colour stability thanks to constant power
- Guaranteed long life
- No acoustic resonance
- Safety shutdown if a lamp is faulty or missing
- Greatly reduced reignition time
- Hardly any EMC interference in the ignition phase
- Screw terminals: $\leq 1.5 \text{ mm}^2$ for stranded wire, $\leq 2.5 \text{ mm}^2$ for solid wire
- Switching possible via mains or powerless via the digital interface
- Noise-free precise control via DALI or DSI signal
- Fault reporting in DALI mode
- Enhanced protection against mains transients
- Enhanced insulation
- Unit fully encased to protect against dust, moisture and vibration
- Casing: polycarbonate, black

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	220 – 240 V
Rated supply voltage AC	198 – 254 V
Rated supply voltage DC	153 – 320 V
Mains frequency	0 / 50 / 60 Hz
DALI current	2 mA
Operating frequency	145 Hz
Max. ignition voltage	2.5 kVp
Type of protection	IP20

Ordering data

Lamp wattage	Lamp type	Type	Article number
For luminaires with 1 lamp			
1 x 70 W	HI	PCI 70 outdoor FOX B011	86458590
1 x 70 W	HS	PCS 70 outdoor FOX B011	86458591
1 x 100 W	HI / HS	PCIS 100 outdoor FOX B011	86458592
1 x 150 W	HI / HS	PCIS 150 outdoor FOX B011	86458593
1 x 250 W	HI / HS	PCIS 250 outdoor FOX B011	86458594

Packaging 70 – 150 W: 16 pieces/carton, 576 pieces/pallet

Packaging 250 W: 10 pieces/carton, 360 pieces/pallet



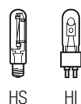
Product matrix, page 233

Lamp matrix, page 233

Wiring diagrams and installation examples, page 258

Specific technical data

Type	Dimensions LxWxH	Hole spacing D	Weight	Mains current	Lamp wattage	Circuit power	λ	Max. cable length to lamp	tc point	Ambient temperature ta
For luminaires with 1 lamp										
PCI 70 outdoor FOX B011	150 x 90 x 40 mm	130 mm	0.72 kg	0.35 A	73 W	81 W	0.97	5 m / 400 pF	70 °C	-25 ... +55 °C
PCS 70 outdoor FOX B011	150 x 90 x 40 mm	130 mm	0.72 kg	0.50 A	73 W	81 W	0.97	5 m / 400 pF	70 °C	-25 ... +55 °C
PCIS 100 outdoor FOX B011	150 x 90 x 40 mm	130 mm	0.75 kg	0.50 A	100 W	109 W	0.97	5 m / 400 pF	70 °C	-25 ... +55 °C
PCIS 150 outdoor FOX B011	150 x 90 x 40 mm	130 mm	0.75 kg	0.35 A	147 W	161 W	0.97	5 m / 400 pF	75 °C	-25 ... +55 °C
PCIS 250 outdoor FOX B011	170 x 90 x 60 mm	130 mm	1.37 kg	1.30 A	252 W	275 W	0.97	5 m / 400 pF	70 °C	-25 ... +50 °C



NEW

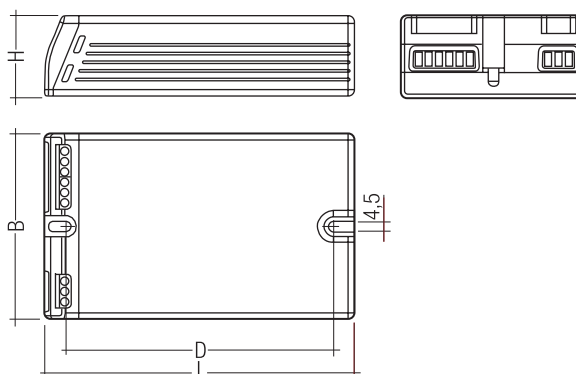
powerCONTROL PCIS, PCS outdoor DIM B011

Build-in applications

Product description

- Pulse packets for increased ignition energy (pulseCONTROL technology)
- Flicker-free light
- Colour stability thanks to constant power
- Guaranteed long life
- No acoustic resonance
- Safety shutdown if a lamp is faulty or missing
- Greatly reduced reignition time
- Hardly any EMC interference in the ignition phase
- Screw terminals: $\leq 1.5 \text{ mm}^2$ for stranded wire, $\leq 2.5 \text{ mm}^2$ for solid wire
- Dimming via digital interface (100 % – 40 % light output)
- Noise-free precise control via DALI, DSI or stepDIM
- Fault reporting in DALI mode
- Unit fully encased to protect against dust, moisture and vibration
- Enhanced protection against mains transients
- Enhanced insulation
- Casing: polycarbonate, black

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	220 – 240 V
Rated supply voltage AC	198 – 254 V
Rated supply voltage DC	153 – 320 V
Mains frequency	0 / 50 / 60 Hz
DALI current	2 mA
Operating frequency	145 Hz
Max. ignition voltage	5 kVp
Type of protection	IP20

Ordering data

Lamp wattage	Lamp type	Type	Article number
For luminaires with 1 lamp			
1 x 70 W	HS	PCS 70 outdoor DIM B011	86458595
1 x 100 W	HI / HS	PCIS 100 outdoor DIM B011	86458596
1 x 150 W	HI / HS	PCIS 150 outdoor DIM B011	86458597
1 x 250 W	HI / HS	PCIS 250 outdoor DIM B011	86458598

Packaging 70 – 150 W: 16 pieces/carton, 576 pieces/pallet

Packaging 250 W: 10 pieces/carton, 360 pieces/pallet



Product matrix, page 233

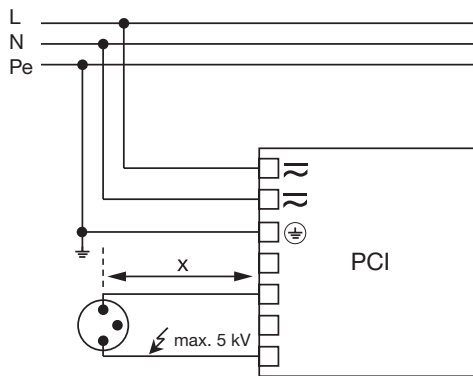
Lamp matrix, page 233

Wiring diagrams and installation examples, page 258

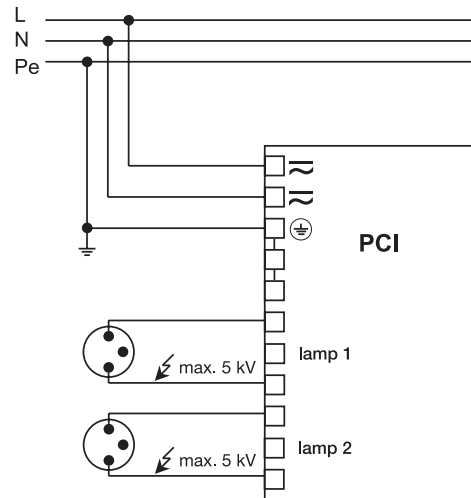
Specific technical data

Type	Dimensions LxWxH	Hole spacing D	Weight	Mains current	Lamp wattage	Circuit power	λ	Max. cable length to lamp	tc point	Ambient temperature t_a
For luminaires with 1 lamp										
PCS 70 outdoor DIM B011	150x90x40 mm	130 mm	0.72 kg	0.35 A	73 W	81 W	0.97	5 m/400 pF	70 °C	-25 ... +55 °C
PCIS 100 outdoor DIM B011	150x90x40 mm	130 mm	0.75 kg	0.50 A	100 W	109 W	0.97	5 m/400 pF	70 °C	-25 ... +70 °C
PCIS 150 outdoor DIM B011	150x90x40 mm	130 mm	0.75 kg	0.70 A	147 W	161 W	0.97	5 m/400 pF	75 °C	-25 ... +55 °C
PCIS 250 outdoor DIM B011	170x90x60 mm	150 mm	1.37 kg	1.30 A	252 W	275 W	0.97	5 m/400 pF	70 °C	-25 ... +50 °C

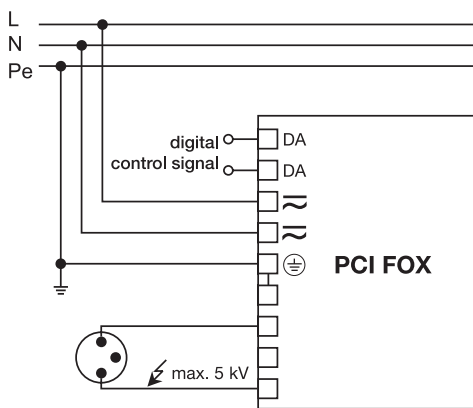
PCI B011 + PCI pcb B011



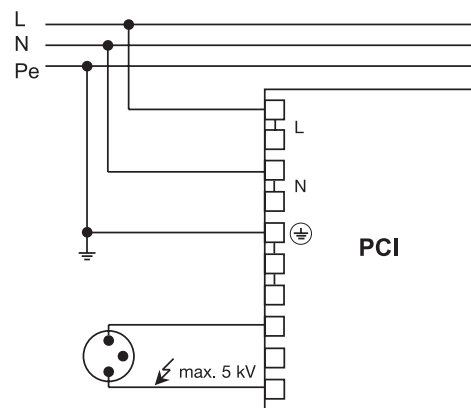
PCI B011 Twin + PCI B021/521 Twin



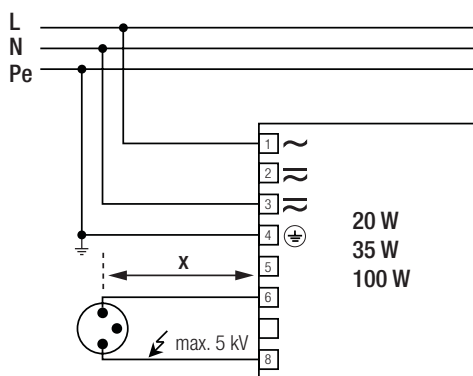
PCI FOX B011



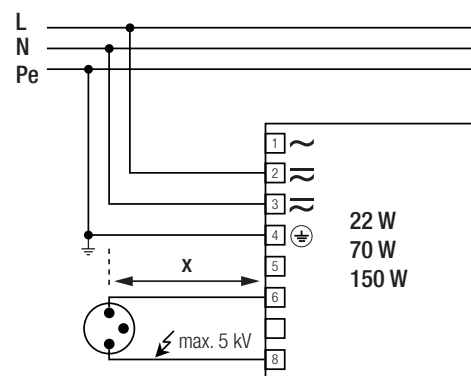
PCI PRO C021 + PCI PRO C521



PCI PRO C011 + PCI PRO pcb C011

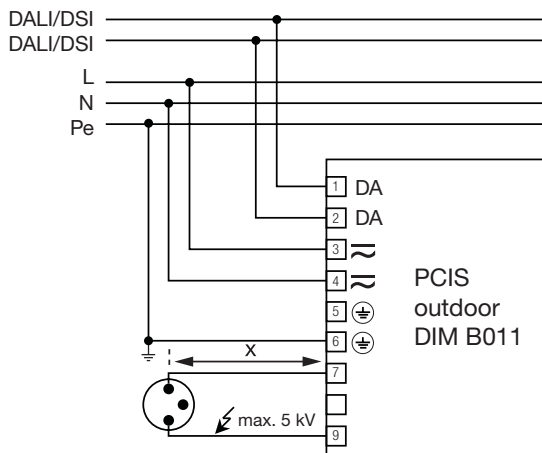


Multi-watt wiring diagram for 20, 35 and 100 W

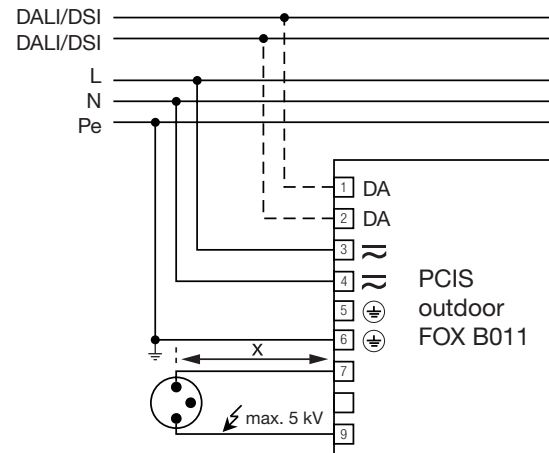


Multi-watt wiring diagram for 22, 70 and 150 W

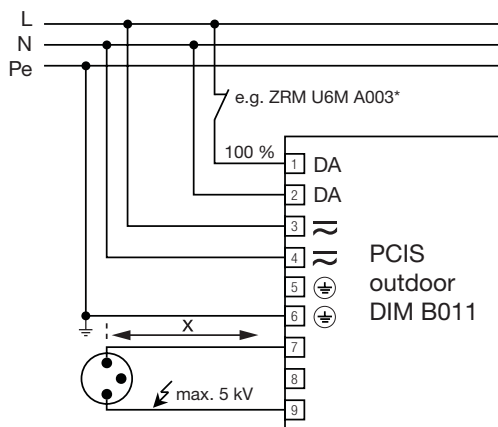
PCIS outdoor DIM B011 – DALI/DSI operation



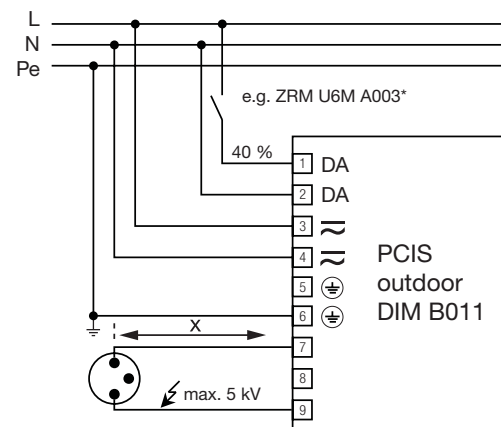
PCIS outdoor FOX B011



PCIS outdoor DIM B011 – stepDIM operation, 100 %



PCIS outdoor DIM B011 – stepDIM operation, 40 %



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Product / function matrix Page 263

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Magnetic transformers for low-voltage halogen lamps Page 264

Mounting

Power 50 to 500 VA

KTR 50 – 105 VA 230/11.5 V and 240/11.5 V Page 266

TMDC 50 – 105 VA 230/11.5 V and 240/11.5 V Page 267

TMDC 20 – 105 VA 230/11.5 V and 50 – 105 VA 240/11.5 V Page 268

TMBB 20 – 105 VA 230/11.5 V and 240/11.5 V Page 269

TMBC 150 – 300 VA 230/11.5 V and 240/11.5 V Page 271

OGT 250 – 500 VA 230/12 V and 245/12 V Page 272

Separate mounting

Power 50 to 300 VA

TMDD 50 – 105 VA 230/11.5 V and 240/11.5 V Page 273

OMT 150 – 300 VA 230 – 240/12 V Page 274

Accessories

TMDA 50 – 160 VA Page 275

Separation piece for TMBB transformers Page 270

Distribution fuse-board Page 276

Wiring diagrams and installation examples Page 277

Standards – Product / function matrix

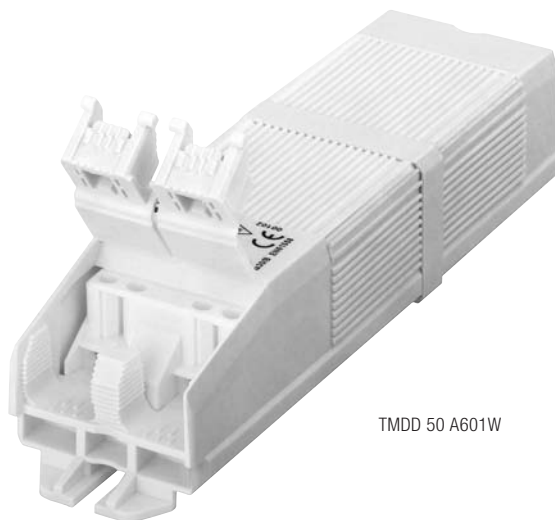
Installation	Type	Page	EN 61558		Screw terminal 0.75 – 2.5 mm ²	Spring terminal 0.5 – 1.5 mm ²	Insulation class	Current-sensitive thermal controller	Thermal protection	Thermal protection and fuse	SELV	Wattage range
Mounting	KTR	Page 266	•		•		B				•	30 – 105 W
	TMDC...K ①	Page 267	•		•		H				•	30 – 105 W
	TMDC...W ①	Page 268	•		•		H	•			•	20 – 105 W
	TMBB	Page 269	•			•	H	•			•	20 – 105 W
	TMBC...W ①	Page 271	•			• ②	H	•			•	100 – 300 W
	TMBC...U ①	Page 271	•			• ②	H		•		•	100 – 300 W
	OGT	Page 272	•		•		H				•	250 – 500 W
	OGT...TP ①	Page 272	•		•		H		•		•	250 – 500 W
Separate mounting	TMDD	Page 273	•		•		B	•			•	50 – 105 W
	OMT	Page 274	•			• ②	F			•	•	70 – 300 W

- ① W = Current-sensitive thermal controller
TP, U = Thermal protection
K = No current-sensitive thermal controller or thermal protection
② Secondary side: screw terminal

Magnetic transformers for low-voltage halogen lamps

In principle, operation of low-voltage halogen lamps, which are universally popular for accent lighting, requires a transformer which adapts the mains voltage to a 12 V operating voltage. There is a choice between magnetic and electronic transformers. The latter are divided up into phase-dimmable and digitally dimmable TE one4all models.

All transformers also ensure that the protective measures required by relevant standards are met, for instance in the event of a shortcircuit or voltage interruption.



Magnetic transformers are a rugged, extremely affordable solution offering long service life together with excellent thermal endurance.

Tridonic's diversified range of units for integration in luminaires and surface-mounted applications covers all relevant uses. The transformers guarantee operation of lamps in accordance with specifications, thereby enabling lamps to achieve their maximum luminous flux and service life.

Essentially, all Tridonic magnetic transformers are characterised by minimal power consumption, compact winding, optimised dimensions and high-quality materials. They are continuously controllable using phase-control dimmers for inductive loads.

Designed for long service life

Thanks to their high-quality insulating material, coil form and the quality of the copper wire used, KTR, TMDC, TMB and TMC type transformers for integration in luminaires and TMDD and OMT types for surface-mounted applications achieve a maximum service life of approximately 100,000 hours of operation, i.e. roughly ten years of continuous operation with a winding temperature of 130 °C ($t_w = 130\text{ °C}$). The winding temperature is calculated from the ambient temperature and the temperature increase due to intrinsic consumption. An upward or downward change in temperature of 10 °C causes doubling or halving of the life of the unit respectively.

The transformers can be protected on the line side either by a slow fuse or by a built-in current-sensitive thermal cutout appropriate to the transformer type. Protection on the secondary side against overloads and short-circuits trips if the lamp is faulty.

Constantly high quality

The consistently high quality and reliability of the Tridonic magnetic transformers are guaranteed by the use of high-grade materials together with manufacturing processes certified to ISO 9001. Fully automatic manufacture ensures constant reproducible quality. All transformers are subjected to 100 % final testing and safety testing.

Standards and approval marks

Magnetic transformers from Tridonic are ENEC certified, carry the CE mark and meet the European standard EN 61558 (IEC 61558) relating to safety, operation and electromagnetic compatibility (EMC).

Specialist for integrated applications

KTR magnetic transformers are characterised by especially compact dimensions (28.6 x 41.5 mm) and an excellent price/performance ratio. Power ratings range from 50 to 105 VA.

Because of their dimensions (28.6 x 41.5 mm), TMDC transformers are suitable for all applications where a device with a small cross-sectional area is needed, e.g. in tubetrack systems. This model is available with power ratings from 20 to 105 VA.

TMB transformers are compactly designed units of reduced length. The device has a cross-sectional area of 65 x 47 mm. Thanks to its high efficiency, the TMB model, which is available in versions from 20 to 300 VA, is also suitable for use at relatively high ambient temperatures.

TMC (OGT) transformers reveal their full potential in situations where several lamps are connected. Power ratings range from 250 to 500 VA versions.

Designed for surface-mounted applications

TMDD magnetic transformers are available as a Lovotec version and as a TMD enclosed version which are also suitable for integration or surface-mounting on furniture having unknown flammability characteristics. Thanks to their small cross-sectional area, these units are especially suitable for use in suspended ceilings.

OMT transformers are used when several lamps are connected, e.g. in the case of cord suspension or track systems. Power ratings range from 150 to 300 VA.



TMDC 105

Magnetic transformers

Technical Information

The latest technical information can be downloaded from the internet: www.tridonic.com, "Technical Information", submenu "Data sheets"

Personal enquiries

A form for personal enquiries is available on the internet at www.tridonic.com, menu "Contact", submenu "Enquiry"



KTR 50 – 105 VA 230/11.5 V and 240/11.5 V
Output 50 – 500 VA

Product description

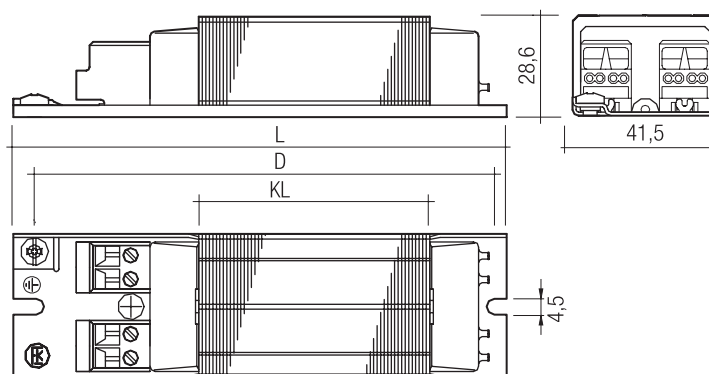
- Small transformer to EN 61558-2-1
 - Single insulation on the primary side
 - Screw terminals, nickel-plated, 0.75 – 2.5 mm² rigid and stranded wires
 - Terminal split (primary/secondary)
 - Insulation class B
- For product data sheet go to www.tridonic.com, or available on request



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Ordering data

Lamp wattage	Core length CL	Type	Article number
KTR 230/11,5 V			
50 VA	78 mm	KTR 50 230 V	86438472
60 VA	100 mm	KTR 60 230 V	86451645
105 VA	165 mm	KTR 105 230 V	86438480
KTR 240/11,5 V			
50 VA	78 mm	KTR 50 240 V	86451878

Packaging KTR 50: 20 pieces/carton, 960 pieces/pallet

Packaging KTR 60: 20 pieces/carton, 800 pieces/pallet

Packaging KTR 105: 10 pieces/carton, 600 pieces/pallet

Specific technical data

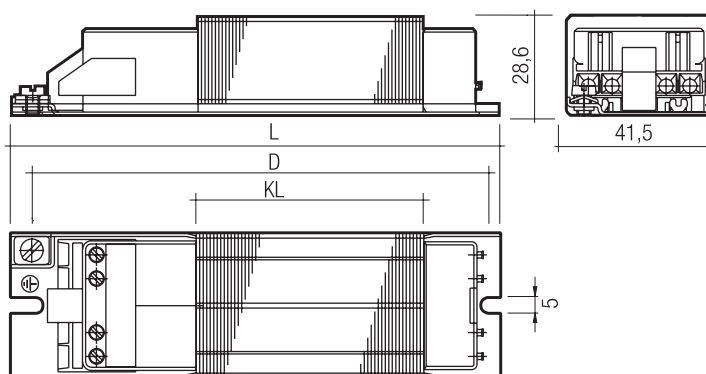
Type	Lamp wattage	Length L	Hole spacing D	Weight	UL / UO	Power consumption	Primary current	Ambient temperature t _a
KTR 230/11,5 V								
KTR 50 230 V	30 – 50 VA	153 mm	143 mm	0.75 kg	83 %	12.6 W	270 mA	40 °C
KTR 60 230 V	35 – 60 VA	175 mm	165 mm	0.92 kg	84 %	15.2 W	320 mA	40 °C
KTR 105 230 V	50 – 105 VA	240 mm	230 mm	1.50 kg	87 %	20.3 W	535 mA	40 °C
KTR 240/11,5 V								
KTR 50 240 V	30 – 50 VA	153 mm	143 mm	0.75 kg	84 %	12.6 W	250 mA	40 °C



TMDC 50 – 105 VA 230/11.5 V and 240/11.5 V
Output 50 – 500 VA

Product description

- Screw terminals, nickel-plated, 0.75 – 2.5 mm² rigid and stranded wires
- Insulation class H
- For product data sheet go to www.tridonic.com, or available on request



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Ordering data

Lamp wattage	Core length CL	Type	Article number
TMDC 230/11,5 V 50/60 Hz			
50 VA	78 mm	TMDC 50 B001K 230 V	86451534
105 VA	165 mm	TMDC 105 B001K 230 V	86451540
TMDC 240/11,5 V 50/60 Hz			
105 VA	165 mm	TMDC 105 B002K 240 V	86451581

Packaging TMDC 50: 20 pieces/carton, 960 pieces/pallet

Packaging TMDC 105: 10 pieces/carton, 600 pieces/pallet

Specific technical data

Type	Lamp wattage	Length L	Hole spacing D	Weight	UL / UO	Power consumption	Primary current	Ambient temperature t _a
TMDC 230/11,5 V 50/60 Hz								
TMDC 50 B001K 230 V	30 – 50 VA	153 mm	143 mm	0.75 kg	86 %	12 W	280 mA	80 °C
TMDC 105 B001K 230 V	50 – 105 VA	240 mm	230 mm	1.50 kg	87 %	25 W	495 mA	80 °C
TMDC 240/11,5 V 50/60 Hz								
TMDC 105 B002K 240 V	50 – 105 VA	240 mm	230 mm	1.50 kg	84 %	20 W	470 mA	80 °C



TMDC 20 – 105 VA 230/11.5 V and 50 – 105 VA 240/11.5 V
Output 50 – 500 VA

Product description

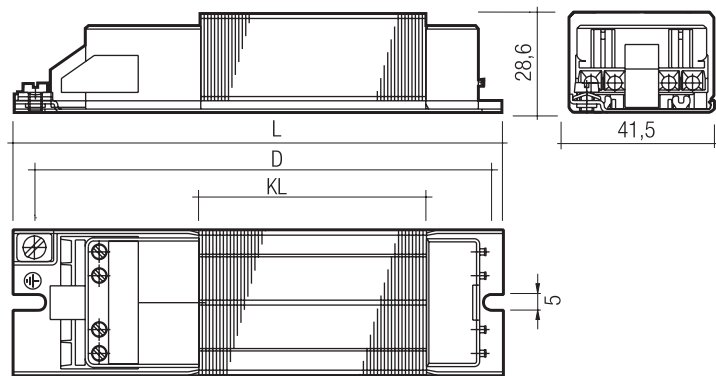
- Perfect protection system with reversible protection against short-circuit, overload and overtemperature
 - Screw terminals, nickel-plated, 0.75 – 2.5 mm² rigid and stranded wires
 - Insulation class H
- For product data sheet go to www.tridonic.com, or available on request



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Ordering data

Lamp wattage	Core length CL	Type	Article number
TMDC 230/11,5 V 50/60 Hz			
20 VA	35 mm	TMDC 20 B001W 230 V	24031030
50 VA	78 mm	TMDC 50 B001W 230 V	24031052
70 VA	110 mm	TMDC 70 B001W 230 V	24031071
105 VA	165 mm	TMDC 105 B001W 230 V	24031093
TMDC 240/11,5 V 50/60 Hz			
50 VA	78 mm	TMDC 50 B002W 240 V	24031108
105 VA	165 mm	TMDC 105 B002W 240 V	24031117

Packaging TMDC 20: 25 pieces/carton, 1250 pieces/pallet

Packaging TMDC 50: 20 pieces/carton, 960 pieces/pallet

Packaging TMDC 70: 20 pieces/carton, 800 pieces/pallet

Packaging TMDC 105: 10 pieces/carton, 600 pieces/pallet

Specific technical data

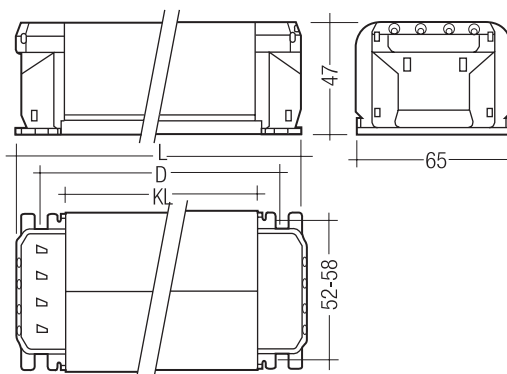
Type	Trigger value, thermal protection	Length L	Hole spacing D	Weight	UL / UO	Power consumption	Primary current	Ambient temperature t _a
TMDC 230/11,5 V 50/60 Hz								
TMDC 20 B001W 230 V	150 °C	110 mm	100 mm	0.40 kg	82 %	6.4 W	120 mA	80 °C
TMDC 50 B001W 230 V	150 °C	153 mm	143 mm	0.75 kg	86 %	12.0 W	280 mA	80 °C
TMDC 70 B001W 230 V	150 °C	195 mm	185 mm	1.10 kg	88 %	20.0 W	410 mA	80 °C
TMDC 105 B001W 230 V	150 °C	240 mm	230 mm	1.50 kg	87 %	25.0 W	495 mA	80 °C
TMDC 240/11,5 V 50/60 Hz								
TMDC 50 B002W 240 V	150 °C	153 mm	143 mm	0.75 kg	84 %	14.0 W	330 mA	80 °C
TMDC 105 B002W 240 V	150 °C	240 mm	230 mm	1.50 kg	84 %	20.0 W	470 mA	80 °C



TMBB 20 – 105 VA 230/11.5 V and 240/11.5 V
Output 50 – 500 VA

Product description

- Primary/secondary-side spring terminals 0.5 – 1.5 mm² for rigid and 0.75 – 1.5 mm² for stranded wires (end sleeves with a max. diameter of 1.6 mm)
 - Insulation class H
- For product data sheet go to www.tridonic.com, or available on request



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Ordering data

Lamp wattage	Core length CL	Type	Article number
TMBB 230/11,5 V 50/60 Hz			
20 VA	15 mm	TMBB 20 B351W 230 V	20886012
35 VA	20 mm	TMBB 35 B351W 230 V	20886034
50 VA	30 mm	TMBB 50 B351W 230 V	20886237
80 VA	45 mm	TMBB 80 B351W 230 V	20886075
105 VA	55 mm	TMBB 105 B351W 230 V	20886081
TMBB 240/11,5 V 50/60 Hz			
20 VA	15 mm	TMBB 20 B352W 240 V	20886102
35 VA	20 mm	TMBB 35 B352W 240 V	20886127
50 VA	30 mm	TMBB 50 B352W 240 V	20886155
105 VA	55 mm	TMBB 105 B352W 240 V	20886215

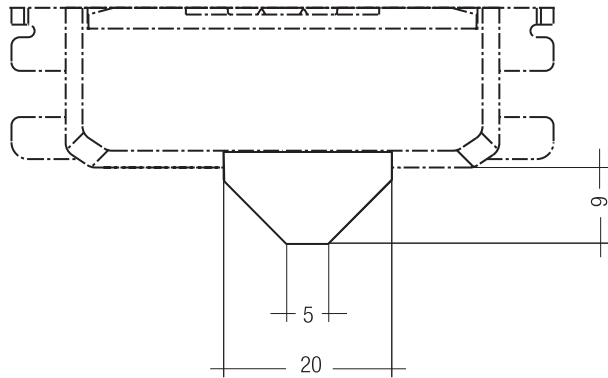
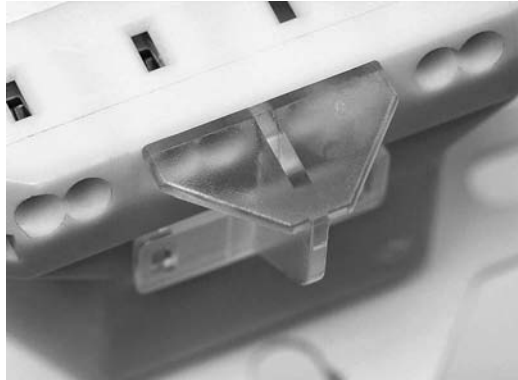
Packaging: 10 pieces/carton, 480 pieces/pallet

Specific technical data

Type	Trigger value, thermal protection	Length L	Hole spacing D	Weight	UL / UO	Power consumption	Primary current	Ambient temperature t _a
TMBB 230/11,5 V 50/60 Hz								
TMBB 20 B351W 230 V	160 °C	51 mm	35.5 mm	0.51 kg	82 %	4.8 W	104 mA	100 °C
TMBB 35 B351W 230 V	160 °C	56 mm	40.5 mm	0.61 kg	84 %	6.8 W	178 mA	95 °C
TMBB 50 B351W 230 V	160 °C	66 mm	50.5 mm	0.80 kg	89 %	7.5 W	245 mA	100 °C
TMBB 80 B351W 230 V	160 °C	81 mm	65.5 mm	1.14 kg	88 %	11.3 W	375 mA	90 °C
TMBB 105 B351W 230 V	160 °C	91 mm	75.5 mm	1.34 kg	88 %	15.3 W	505 mA	80 °C
TMBB 240/11,5 V 50/60 Hz								
TMBB 20 B352W 240 V	160 °C	51 mm	35.5 mm	0.51 kg	82 %	4.6 W	102 mA	100 °C
TMBB 35 B352W 240 V	160 °C	56 mm	40.5 mm	0.60 kg	83 %	6.7 W	168 mA	95 °C
TMBB 50 B352W 240 V	160 °C	66 mm	50.5 mm	0.81 kg	89 %	7.0 W	230 mA	100 °C
TMBB 105 B352W 240 V	160 °C	91 mm	75.5 mm	1.35 kg	87 %	15.5 W	472 mA	80 °C

Product description

- For increasing the safety gap between the primary and secondary terminals
- Simple installation (snap-on, no tools required)



Ordering data

Type	Article number
TRENNSTEG TMBB/TMBC	00057193



Applies to U-type devices:



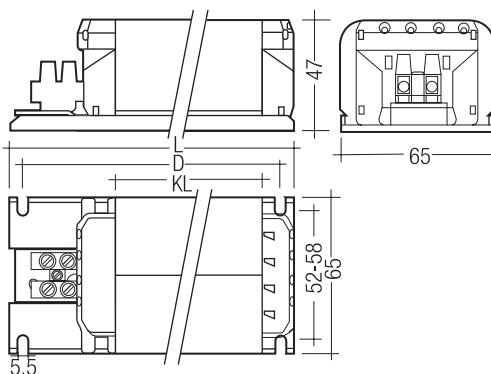
Applies to W-type devices:



TMBC 150 – 300 VA 230/11.5 V and 240/11.5 V
Output 50 – 500 VA

Product description

- Primary-side spring terminals 0.5 – 1.5 mm² for rigid and 0.75 – 1.5 mm² for stranded wires with end sleeves with a max. diameter of 1.6 mm
 - Secondary-side screw terminals, 150 VA 2.5 – 6 mm², 210 VA 4 – 10 mm², 300 VA 4 – 10 mm²
 - Insulation class H
- For product data sheet go to www.tridonic.com, or available on request



→ **Product matrix**, page 263

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Ordering data

Lamp wattage	Core length CL	Type	Article number
TMBC 230/11,5 50/60 Hz			
150 VA	85 mm	TMBC 150 B551U 230 V	22158504
210 VA	105 mm	TMBC 210 B551U 230 V	22158505
300 VA	150 mm	TMBC 300 B551U 230 V	22115692
150 VA	85 mm	TMBC 150 B551W 230 V	20886262
210 VA	105 mm	TMBC 210 B551W 230 V	20886259
TMBC 240/11,5 50/60 Hz			
300 VA	150 mm	TMBC 300 B552U 240 V	22115709

Packaging TMBC 150: 10 pieces/carton, 480 pieces/pallet

Packaging TMBC 210: 10 pieces/carton, 240 pieces/pallet

Packaging TMBC 300: 6 pieces/carton, 240 pieces/pallet

Specific technical data

Type	Trigger value, thermal protection	Lamp wattage	Length L	Hole spacing D	Weight	UL / UO	Power consumption	Primary current	Ambient temperature t _a	Recommended fuse value mA/T
TMBC 230/11,5 50/60 Hz										
TMBC 150 B551U 230 V	155 °C	100 – 150 VA	154 mm	138.5 mm	1.98 kg	91 %	16.7 W	703 mA	90 °C	1,000
TMBC 210 B551U 230 V	155 °C	140 – 210 VA	170 mm	154.5 mm	2.43 kg	91 %	23.5 W	962 mA	80 °C	1,250
TMBC 300 B551U 230 V	155 °C	200 – 300 VA	220 mm	204.5 mm	3.39 kg	93 %	29.0 W	1,415 mA	80 °C	2,000
TMBC 150 B551W 230 V	160 °C	100 – 150 VA	154 mm	138.5 mm	1.98 kg	91 %	16.7 W	703 mA	90 °C	–
TMBC 210 B551W 230 V	160 °C	140 – 210 VA	170 mm	154.5 mm	2.43 kg	91 %	23.5 W	962 mA	80 °C	–
TMBC 240/11,5 50/60 Hz										
TMBC 300 B552U 240 V	155 °C	200 – 300 VA	220 mm	204.5 mm	3.40 kg	93 %	28.4 W	1,358 mA	80 °C	2,000



OGT 250 – 500 VA 230/12 V und 245/12 V
Output 50 – 500 VA

Product description

- Insulation class H

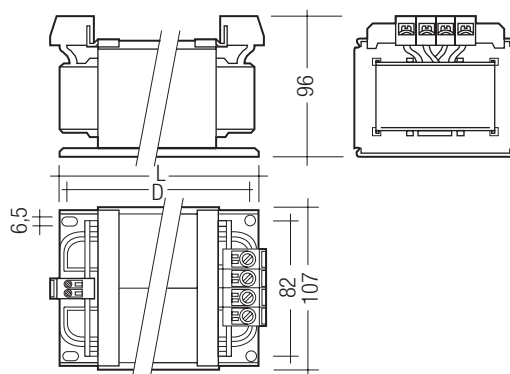
→ For product data sheet go to www.tridonic.com,
or available on request



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Ordering data

Lamp wattage	Type	Article number
Standard		
300 VA	OGT T50	20305468
500 VA	OGT T80	20296255
Thermal protection		
250 VA	OGT T40 TP	20561812
300 VA	OGT T50 TP	20561834
500 VA	OGT T80 TP	20561869

Packaging OGT 40, OGT 50: 4 pieces/carton, 144 pieces/pallet

Packaging OGT 80: 3 pieces/carton, 108 pieces/pallet

Specific technical data

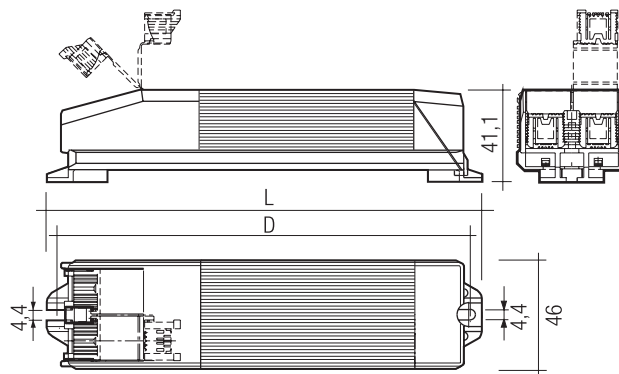
Type	Trigger value, thermal protection	Length L	Hole spacing D	Weight	UL / UO	Power consumption	Primary current	Recommended fuse value mA/T
Standard								
OGT T50	–	104 mm	90 mm	3.7 kg	94 %	22.5 W	1,400 mA	1,600
OGT T80	–	134 mm	120 mm	5.4 kg	94 %	38.2 W	2,330 mA	2,500
Thermal protection								
OGT T40 TP	150 °C	94 mm	80 mm	3.1 kg	92 %	22.0 W	1,170 mA	1,400
OGT T50 TP	150 °C	104 mm	90 mm	3.7 kg	94 %	22.5 W	1,400 mA	1,600
OGT T80 TP	150 °C	134 mm	120 mm	5.4 kg	94 %	38.2 W	2,330 mA	2,500



TMDD 50 – 105 VA 230/11.5 V and 240/11.5 V
Output 50 – 300 VA

Product description

- Perfect protection system with reversible protection against short-circuit, overload and overtemperature
 - Split cable clamps for primary and secondary-side conductors
 - Screw terminals, nickel-plated, 0.75 – 2.5 mm² rigid and stranded wires
 - Insulation class B
- For product data sheet go to www.tridonic.com, or available on request



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Ordering data

Lamp wattage	Type	Article number
TMDD 230/11,5 50/60 Hz		
50 VA	TMDD 50 A701W 230 V	86453803
60 VA	TMDD 60 A601W 230 V	24030650
105 VA	TMDD 105 A601W 230 V	24030679
TMDD 240/11,5 50/60 Hz		
50 VA	TMDD 50 A802W 240 V	86455146

Packaging TMDD 50, TMDD 60: 10 pieces/carton, 600 pieces/pallet

Packaging TMDD 105: 10 pieces/carton, 400 pieces/pallet

Specific technical data

Type	Trigger value, thermal protection	Length L	Hole spacing D	Height H	Weight	UL / UO	Power consumption	Primary current	Ambient temperature t _a	Max. casing temperature
TMDD 230/11,5 50/60 Hz										
TMDD 50 A701W 230 V	120 °C	182 mm	172 mm	41.4 mm	0.80 kg	87 %	12 W	270 mA	35 °C	80 °C
TMDD 60 A601W 230 V	120 °C	202 mm	192 mm	39.0 mm	1.04 kg	88 %	13 W	310 mA	30 °C	80 °C
TMDD 105 A601W 230 V	120 °C	272 mm	262 mm	39.0 mm	1.65 kg	87 %	22 W	510 mA	25 °C	80 °C
TMDD 240/11,5 50/60 Hz										
TMDD 50 A802W 240 V	120 °C	182 mm	172 mm	39.0 mm	0.86 kg	87 %	12 W	265 mA	30 °C	80 °C



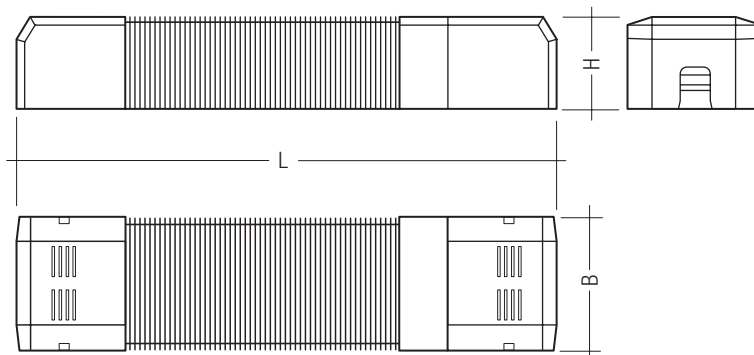
OMT 150 – 300 VA 230 – 240/12 V
Output 50 – 300 VA

Product description

- Fuse and thermal protector
 - Dimming by means of symmetrical leading-edge phase dimmer
 - Double spring terminal on the primary side, for through-wiring 0.75 – 2.5 mm²
 - Screw terminal on the secondary side, up to 10 mm²
 - Insulation class F
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Rated supply voltage	230 – 240 V
Mains frequency	50 / 60 Hz
Secondary voltage 230 / 240 V	11.4 – 11.9 V
Dimming	Balanced leading-edge phase dimmer



Product matrix, page 263

Standards, page 263

Wiring diagrams and installation examples, page 277

Ordering data

Type	Article number
OMT 150 A222W 150 VA	20882035
OMT 210 A222W 210VA	20882041
OMT 300 A222W 300VA	20882057

Packaging OMT 150: 1 pieces/carton, 138 pieces/pallet

Packaging OMT 210: 1 pieces/carton, 126 pieces/pallet

Packaging OMT 300: 1 pieces/carton, 102 pieces/pallet

Specific technical data

Type	Dimensions LxWxH	Distance between mounting holes	Weight	Rated current 230 – 240 V	Lamp power range 230 V	Lamp power range 240 V	Efficiency at full load	λ at full load	Ambient temperature t_a	Recommended fuse value mA/T	Max. casing temperature
OMT 150 A222W 150 VA	233x77.2x65.5 mm	190–210x63 mm	2.4 kg	0.71–0.75 A	70–150 W	140–150 W	88 %	0.93–0.94	-20 ... +35 °C	1,000	80 °C
OMT 210 A222W 210VA	267x77.2x65.5 mm	223–243x63 mm	3.1 kg	0.99–1.03 A	100–210 W	200–210 W	91 %	0.92–0.93	-20 ... +35 °C	1,250	80 °C
OMT 300 A222W 300VA	322x77.2x65.5 mm	280–300x63 mm	4.2 kg	1.36–1.44 A	150–300 W	250–300 W	90 %	0.96	-20 ... +35 °C	2,000	80 °C



TMDA 50 – 160 VA

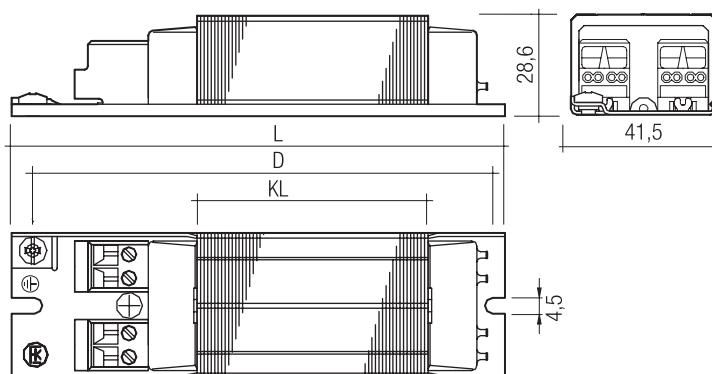
Accessories

Product description

- Can also be used for transforming from 110 / 220 V and 120 / 230 V
- Plug terminals nickel-plated, 0.75 – 2.5 mm² for rigid wires
- Insulation class H
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Secondary voltage	240 V
Mains frequency	50 / 60 Hz



Ordering data

Primary voltage	Rated power	Type	Article number
TMDA 115/240 V 50/60 Hz			
115 V	120 VA	TMDA 120 B104K 115/240 V	86453471
TMDA 127/240 V 50/60 Hz			
127 V	50 VA	TMDA 50 B103K 127/240 V	86453064
127 V	100 VA	TMDA 100 B103K 127/240 V	86453086
127 V	130 VA	TMDA 130 B103K 127/240 V	86453487

Packaging 50 VA: 25 pieces/carton, 1250 pieces/pallet

Packaging 100 VA: 20 pieces/carton, 800 pieces/pallet

Packaging 120 VA and 130 VA: 20 pieces/carton, 500 pieces/pallet

Specific technical data

Type	Length L	Hole spacing D	Weight	UL / UO	Primary current	Secondary current	Ambient temperature t _a
TMDA 115/240 V 50/60 Hz							
TMDA 120 B104K 115/240 V	175 mm	165 mm	0.930 kg	12.1 %	1,250 mA	500 mA	50 °C
TMDA 127/240 V 50/60 Hz							
TMDA 50 B103K 127/240 V	110 mm	100 mm	0.385 kg	17.0 %	460 mA	200 mA	50 °C
TMDA 100 B103K 127/240 V	153 mm	143 mm	0.750 kg	10.8 %	930 mA	420 mA	50 °C
TMDA 130 B103K 127/240 V	175 mm	165 mm	0.935 kg	9.5 %	1,100 mA	520 mA	50 °C

RoHS

Distribution fuse-board

Accessories

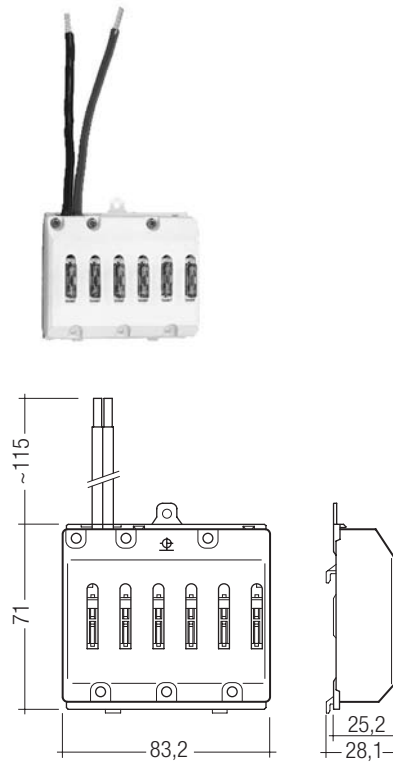
Product description

- To simplify installation of LV halogen lamps
- Connection of up to 6 individually fused lamp output circuits
- With cable clamp (optional on request)
- Production supervision by VDE

→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

Terminal area, feed cable	flexible 6 mm ²
Terminal area, outputs	rigid/flexible 1 – 4 mm ²
Rated current	30 A (6 x 5 A)
Rated voltage	max. 50 V (safety extra low voltage)



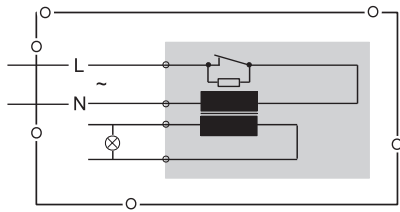
Ordering data

Type	Article number
SV-06 Fuse distributor	88698708
Packaging: 60 pieces/carton	

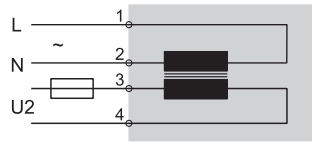
Specific technical data

Type	Weight
SV-06	0.113 kg

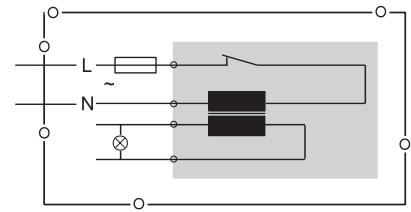
Transformer with current-sensitive thermal controller



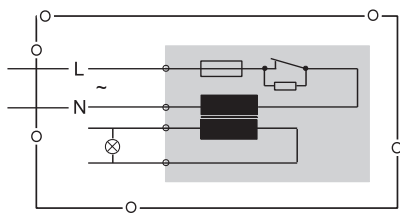
Transformer without internal protection – requires external protection



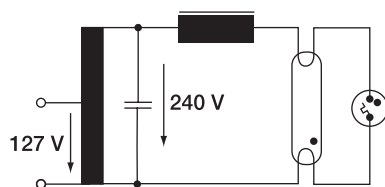
Transformer with thermal controller – external protection needed against short circuits



Transformer with thermal controller and built-in fuse to protect against short circuits



Circuit with energy-saving transformer



Overview Page 280

Product / function matrix Page 280

Standards Page 280

Product information Page 282

Electronic transformers for low-voltage halogen lamps Page 282

Fixed-output

TE-DC 2 F101 100 – 300 VA 230 – 240/12 V 0/50/60 Hz Page 283

Dimming via trailing-edge phase dimmers

TE-ECO, 20 – 105 VA 230 – 240/12 V 0/50/60 Hz Page 284

TE-NE, 20 – 105 VA 230 – 240/12 V 0/50/60 Hz Page 285

Dimming via leading-edge and trailing-edge phase dimmers

TE, 20 – 150 VA 230 – 240/12 V 0/50/60 Hz Page 286

TE-C 101, 20 – 105 VA 230 – 240/12 V 0/50/60 Hz, speedy Page 287

TE-C 161, 20 – 105 VA 230 – 240/12 V 0/50/60 Hz, speedy with cable Page 288

TE VIPER 60 – 105 VA 230 – 240/12 V Page 289

TE VIPER 60 – 105 VA 230 – 240/11.6 V 50/60 Hz with cable Page 290

Dimming via single or double switches

TE-T, 20 – 105 VA 230 – 240/12 V 0/50/60 Hz Page 291

Dimming 1...10 V

TE-U 1...10 V sc, 20 – 105 VA 230 – 240/12 V 0/50/60 Hz Page 292

Dimming one4all

TE 0105 one4all cc, 20 – 105 VA 230 – 240/12 V 0/50/60 Hz Page 293

TE 0105 one4all sc, 20 – 105 VA 230 – 240/12 V 0/50/60 Hz Page 294

TE 0150 one4all sc, 50 – 150 VA 230 – 240/12 V 0/50/60 Hz Page 295

TE-DC 2 D101 one4all 100 – 300 VA 230 – 240/12 V 0/50/60 Hz Page 296

Wiring diagrams and installation examples Page 297

Standards – Product/function matrix

			Standards					
			EN 55015	DC operation acc. to EN 50172	EN 61000-3-2	EN 61047	EN 61347-2-2	EN 61547
Dimming	Type	Page						
Fixed-output	TE-DC 2 F101	Page 283	•	•	•	•	•	•
Dimming via trailing-edge phase dimmers	TE-ECO 0070	Page 284	•		•	•	•	•
	TE-NE 1070 + TE-NE 1105	Page 285	•		•	•	•	•
Dimming via leading-edge and trailing-edge phase dimmers	TE 0070 C201 + TE 0105 C201	Page 286	•		•	•	•	•
	TE-0050 C101 + TE-0070 C101 + TE-0105 C101	Page 287	•		•	•	•	•
	TE-0050 C161 + TE-0070 C161 + TE-0105 C161	Page 288	•		•	•	•	•
	TE VIPER	Page 289	•		•	•	•	•
	TE VIPER with cable	Page 290	•		•	•	•	•
Dimming via single or double switches	TE 0070 T001 + TE 00105 T001	Page 291	•		•	•	•	•
Dimming 1...10V	TE 0105 U 1..10V sc	Page 292	•	•	•	•	•	•
Dimming one4all	TE 0105 one4all cc	Page 293	•	•	•	•	•	•
	TE 0105 one4all sc	Page 294	•	•	•	•	•	•
	TE 0150 one4all sc	Page 295	•	•	•	•	•	•
	TE-DC 2 D101 one4all	Page 296	•	•	•	•	•	•

	Installation									Communication				Protection			Features							
	Build-in version	Build-in version without casing	Surface-mount version	No tools required	Terminal cover	Cable clamp	Ready-made cables	Secondary-side cables	Double-sided terminals	Single-sided terminals	Single/double switch	1...10V / potentiometer	Trailing-edge phase dimmer	Leading-edge /trailing-edge phase dimmer	switchDIM / DSI / DALI	Short-circuit protection	Overtemperature protection	Overload protection	Intelligent current monitor	corridorFUNCTION	Intelligent Voltage Guard (IVG)	Constant output voltage	SELV	Wattage range
			•		•	•			•							•	•		•		•	•	•	100–300 VA
			•		•	•			•				•			•	•	•					•	20–105 VA
			•		•	•				•			•			•	•	•					•	20–105 VA
			•	•	•	•			•					•		•	•	•					•	20–105 VA
			•	•	•	•				•				•		•	•	•					•	20–105 VA
			•		•	•	•			•				•		•	•						•	20–105 VA
			•		•	•		•	•					•		•	•	•					•	20–105 VA
			•	•	•	•			•		•					•	•	•				•	•	20–105 VA
			•	•	•	•			•			•				•	•	•				•	•	20–150 VA
•									•						•	•	•	•		•		•	•	20–105 VA
			•	•	•	•			•						•	•	•	•		•		•	•	20–150 VA
			•	•	•	•			•						•	•	•	•		•		•	•	20–150 VA
			•		•	•			•						•	•	•		•		•	•	•	100–300 VA

Electronic transformers for low-voltage halogen lamps



Tridonic electronic transformers are characterised above all by excellent economic efficiency, exceptional lighting comfort and high reliability. This diverse product range offers the best way of integrating low-voltage halogen lamps in lighting solutions easily. Task-specific control ranges from digital using a DALI or DSI interface, leading-edge and trailing-edge phase dimmers and momentary-action switch operation using switchDIM (for more information go to page 90) through to a rotary potentiometer with an analogue 1...10 V interface. The TE one4all, TE-DC, TE-U, TE-T, TE-S and TE-C versions all boast features that have been optimised to suit their respective application areas and requirements.

Optimal lamp operation

Electronic transformers operate lamps with high-frequency voltages in the range from 30 to 40 kHz. The innovative electronic system with switch-on current limiting, soft-starting and a constant non-load dependent output voltage over the entire output range ensures optimum lamp operation and hence long lamp service life.

In the case of the digital transformers, a unique circuit concept stabilises the output voltage regardless of the input voltage. The ASIC is the core of the patented circuitry and ensures optimised, low-loss control of the power circuitry and all protective and monitoring functions in the event of overloads, overtemperature and short circuits.

Thanks to high-quality components, intelligent circuit design and extensive inspection and test programs at rated operating conditions, Tridonic TE transformers achieve an average life of 50,000 hours with a failure probability of less than 10 %, i.e. an average failure rate of 0.2 % per 1,000 hours of operation.

These features ensure that lighting installations with low-voltage halogen lamps achieve a high level of economic efficiency.

Constantly high quality

The consistently high quality and reliability of the Tridonic TE transformers are guaranteed by the use of high-grade materials together with manufacturing processes certified to ISO 9001. Fully automatic manufacture ensures constant reproducible quality. All transformers are subjected to 100 % final testing and safety testing.

Standards and approval marks

Electronic transformers from Tridonic are ENEC certified, carry the CE mark and meet all the European as well as international standards relating to safety, operation and electromagnetic compatibility (EMC).

Technical Information

The latest technical information can be downloaded from the internet: www.tridonic.com, "Technical Information", submenu "Data sheets"

Personal enquiries

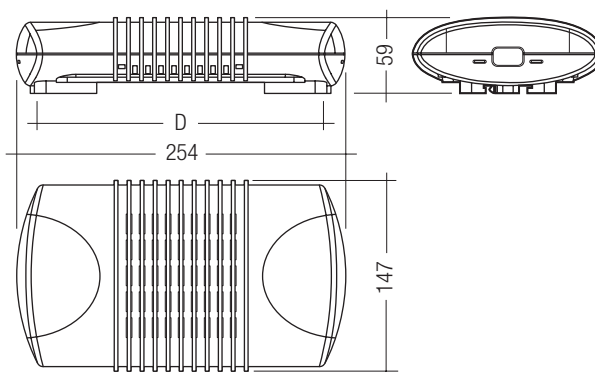
A form for personal enquiries is available on the internet at www.tridonic.com, menu "Contact", submenu "Enquiry"



TE-DC 2 F101, 100 – 300 VA 230 – 240/12 V 0/50/60 Hz
fixed output

Product description

- Independent device with integrated cable clamp and terminal cover
 - Constant output voltage
 - For emergency lighting systems as per EN 50172
 - Short-circuit shutdown feature with automatic restart
 - With soft start
 - Overtemperature and overload protection by reducing power and automatic restart
 - Quiet operation even when dimmed
 - Suitable for cable lengths up to 20 m
 - Double assignment of the terminal possible
 - Practical individual packaging with assembly instructions
 - Rapid installation of the cable clamp, no tools required
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Protection class	II
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 90 %
λ	0.99
Power circuitry	digital

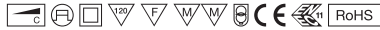
Ordering data

Lamp wattage	Dimensions LxWxH	Distance between mounting holes (D)	Dimming	Type	Article number
100 – 300 VA	254 x 147 x 59 mm	218 – 226 mm	not provided (fixed output)	TE-DC 2 0300 F101 white	86458505
100 – 300 VA	254 x 147 x 59 mm	218 – 226 mm	not provided (fixed output)	TE-DC 2 0300 F101 grey	86458503

Packaging: 10 pieces/carton, 120 pieces/pallet

Specific technical data

Type	Rated supply voltage AC	Rated supply voltage DC	Rated current (at 230 V 50 Hz)	Secondary voltage	DC lamp output	Ambient temperature t_a	Max. casing temperature	Current monitor	Soft-start	Weight	Output terminal
TE-DC 2 0300 F101	230 – 240 V	230 – 240 V	1.45 A	11.9 V	70 %	-20 ... +35 °C	100 °C	yes	yes	0.8 kg	2-pin, screw terminal



TE-ECO, 20 – 105 VA 230 – 240/12 V 0/50/60 Hz
Dimming via trailing-edge phase dimmer

Product description

- Short-circuit shutdown feature with automatic restart
 - For emergency lighting systems as per EN 50172
 - Overtemperature and overload protection by reducing power and automatic restart
 - Screw terminal
- For product data sheet go to www.tridonic.com, or available on request

Technical data

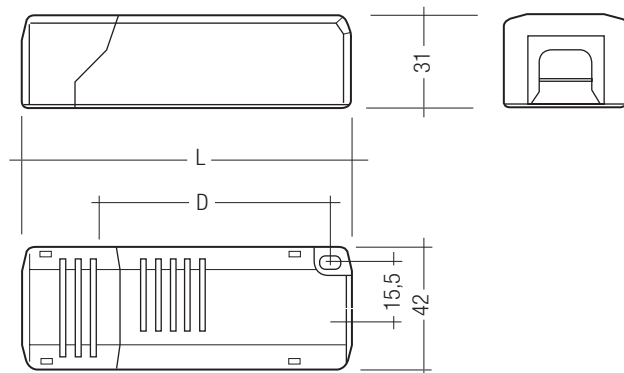
Protection class	II
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 94 %
λ	> 0.95



Product matrix, page 280

Standards, page 280

Wiring diagrams and installation examples, page 297



Ordering data

Lamp wattage	Dimensions LxWxH	Distance between mounting holes (D)	Dimming	Type	Article number
20 – 70 VA	120 x 42 x 31 mm	86 – 88 mm	Trailing-edge phase control	TE-ECO 0070	22081980
35 – 105 VA	120 x 42 x 31 mm	86 – 88 mm	Trailing-edge phase control	TE-ECO 0105	22081996

Packaging: 20 pieces/carton, 960 pieces/pallet

Specific technical data

Type	Rated supply voltage AC	Rated current (at 230 V 50 Hz)	Secondary voltage 230 V	Secondary voltage 230 V	DC lamp output	Operating frequency	Ambient temperature t_a	Max. casing temperature	Soft-start	Weight
TE-ECO 0070	230 – 240 V	0.32 A	11.25 V	11.75 V	> 70 %	35 kHz	0 ... +50 °C	95 °C	yes	0.13 kg
TE-ECO 0105	230 – 240 V	0.48 A	11.25 V	11.75 V	> 70 %	35 kHz	0 ... +45 °C	85 °C	yes	0.15 kg



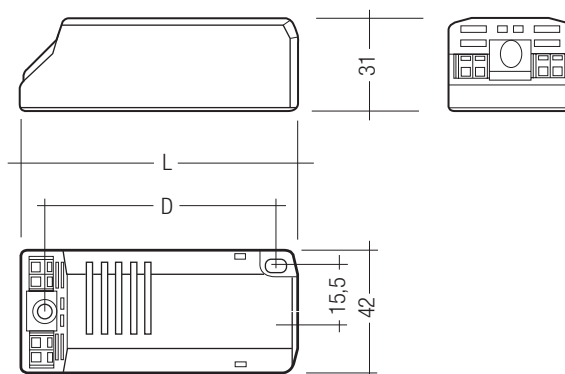
TE-NE, 20 – 105 VA 230 – 240/12 V 0/50/60 Hz
Dimming via trailing-edge phase dimmer

Product description

- Short-circuit shutdown feature with automatic restart
 - For emergency lighting systems as per EN 50172
 - Overtemperature and overload protection by reducing power and automatic restart
 - Screw terminal
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Protection class	II
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 94 %
λ	> 0.95



Product matrix, page 280

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Ordering data

Lamp wattage	Dimensions LxWxH	Distance between mounting holes (D)	Dimming	Type	Article number
20 – 70 VA	102 x 42 x 31 mm	86 – 88 mm	Trailing-edge phase control	TE-NE 1070	22082145
35 – 105 VA	102 x 42 x 31 mm	86 – 88 mm	Trailing-edge phase control	TE-NE 1105	22082139

Packaging: 20 pieces/carton, 1400 pieces/pallet

Specific technical data

Type	Rated supply voltage AC	Rated supply voltage DC	Rated current (at 230 V 50 Hz)	Secondary voltage 230 V	DC lamp output	Operating frequency	Ambient temperature t_a	Max. casing temperature	Soft-start	Weight
TE-NE 1070	230 – 240 V	220 – 240 V	0.32 A	11.25 V	< 70 %	35 kHz	0 ... +65 °C	90 °C	yes	0.13 kg
TE-NE 1105	230 – 240 V	220 – 240 V	0.48 A	11.25 V	< 70 %	35 kHz	0 ... +55 °C	85 °C	yes	0.15 kg



TE, 20 – 150 VA 230 – 240/12 V 0/50/60 Hz
Dimming via leading-edge and trailing-edge phase dimmers

Product description

- Independent device with integrated cable clamp and terminal cover
 - Constant output voltage
 - Short-circuit shutdown feature with automatic restart
 - 6 or 8-pole terminal on secondary side
 - Primary-side through-wiring
 - Practical individual packaging with assembly instructions
 - Rapid installation of the cable clamp, no tools required
- For product data sheet go to www.tridonic.com,
or available on request



Technical data

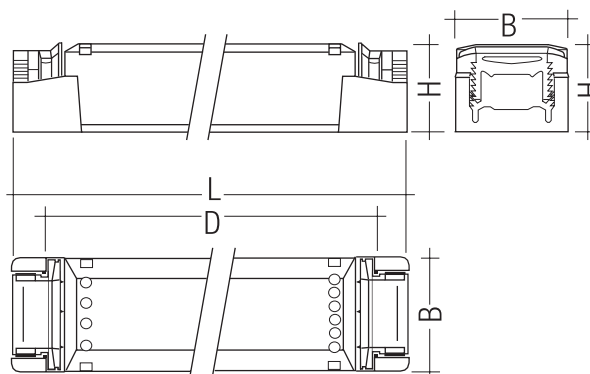
Protection class	II
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 94 %
λ	> 0.95
Power circuitry	Standard



Product matrix, page 280

Standards, page 280

Wiring diagrams and installation examples, page 297



Ordering data

Lamp wattage	Dimensions LxWxH	Distance between mounting holes (D)	Dimming	Type	Article number
20 – 70 VA	167 x 42 x 31 mm	143 – 148 mm	Leading-edge and trailing-edge phase control	TE 0070 C201 230–240/11,5 V	89899856
35 – 105 VA	167 x 42 x 31 mm	143 – 148 mm	Leading-edge and trailing-edge phase control	TE 0105 C201 230–240/11,5 V	89899857
50 – 150 VA	207 x 46 x 40 mm	170 – 174 mm	Trailing-edge phase control	TE-S 1150 230/12 V	20828950

Packaging 70 VA and 105 VA: 20 pieces/carton, 800 pieces/pallet

Packaging 150 VA: 10 pieces/carton, 600 pieces/pallet

Specific technical data

Type	Rated supply voltage AC	Rated supply voltage DC	Rated current (at 230 V 50 Hz)	Secondary voltage 230 V	Secondary voltage 230 V	Operating frequency	Ambient temperature t_a	Max. casing temperature	Soft-start	Weight	Output terminal
TE 0070 C201	230 – 240 V	220 – 240 V	0.30 A	11.5 V	11.7 V	55 kHz	-25 ... +50 °C	85 °C	< 1 s	0.135 kg	6-pin screw terminal
TE 0105 C201	230 – 240 V	220 – 240 V	0.45 A	11.5 V	11.7 V	40 kHz	-25 ... +45 °C	85 °C	< 1 s	0.150 kg	6-pin screw terminal
TE-S 1150	230 V	220 V	0.69 A	11.7 V	11.7 V	35 kHz	0 ... +50 °C	95 °C	yes	0.290 kg	8-pin spring terminal



TE-C 101, 20 – 150 VA 230 – 240/12 V 50/60 Hz, speedy
Dimming via leading-edge and trailing-edge phase dimmers

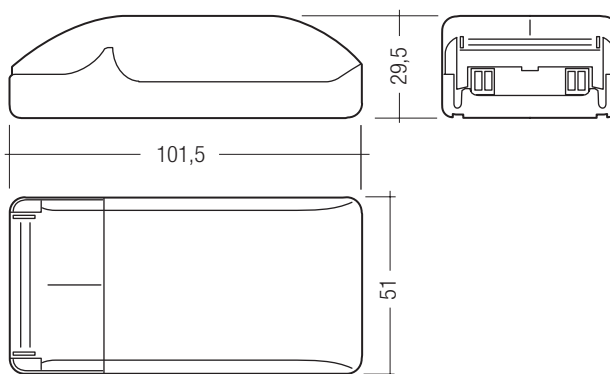
Product description

- Compact dimensions
- Short-circuit shutdown feature with automatic restart
- Overtemperature and overload protection with power regulation
- Large connection compartment
- Double assignment of the terminal possible
- Cage clamp terminals for rigid and flexible wires
- Double terminals on the secondary side
- Rapid installation of cable clamp and terminal cover, no tool required
- Casing: polycarbonate, dark blue/white

→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

Protection class	II
Mains frequency	50 / 60 Hz
λ	> 0.95



Product matrix, page 280

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Ordering data

Lamp wattage	Dimensions LxWxH	Dimming	Type	Article number
20 – 50 VA	101.5 x 51 x 29.5 mm	Leading-edge and trailing-edge phase control	TE-0050 C101	24034855
20 – 70 VA	101.5 x 51 x 29.5 mm	Leading-edge and trailing-edge phase control	TE-0070 C101	24034868
35 – 105 VA	101.5 x 51 x 29.5 mm	Leading-edge and trailing-edge phase control	TE-0105 C101	24034874

Packaging: 20 pieces/carton, 1000 pieces/pallet

Specific technical data

Type	Rated supply voltage AC	Rated current (at 230 V 50 Hz)	Secondary voltage 230 V	Secondary voltage 230 V	Operating frequency	Ambient temperature t_a	Max. casing temperature	Soft-start	Weight	Secondary terminal
TE-0050 C101	230 – 240 V	0.215 A	11.5 V	11.7 V	60 kHz	-20 ... +50 °C	85 °C	< 1 s	0.105 kg	4-pin
TE-0070 C101	230 – 240 V	0.300 A	11.5 V	11.7 V	55 kHz	-20 ... +50 °C	85 °C	< 1 s	0.108 kg	4-pin
TE-0105 C101	230 – 240 V	0.450 A	11.5 V	11.7 V	40 kHz	-20 ... +45 °C	85 °C	< 1 s	0.120 kg	4-pin



TE-C 161, 20 – 105 VA 230 – 240/12 V 50/60 Hz, speedy with cable
Dimming via leading-edge and trailing-edge phase dimmers

Product description

- Short-circuit shutdown feature with automatic restart
 - Overtemperature and overload protection with power regulation
 - Large connection compartment
 - With soft start (< 1 s)
 - Cage clamp terminals for rigid and flexible wires
 - Double terminals on the secondary side
 - Rapid installation of cable clamp and terminal cover, no tool required
 - Casing: polycarbonate, dark blue/white
- For product data sheet go to www.tridonic.com, or available on request

Technical data

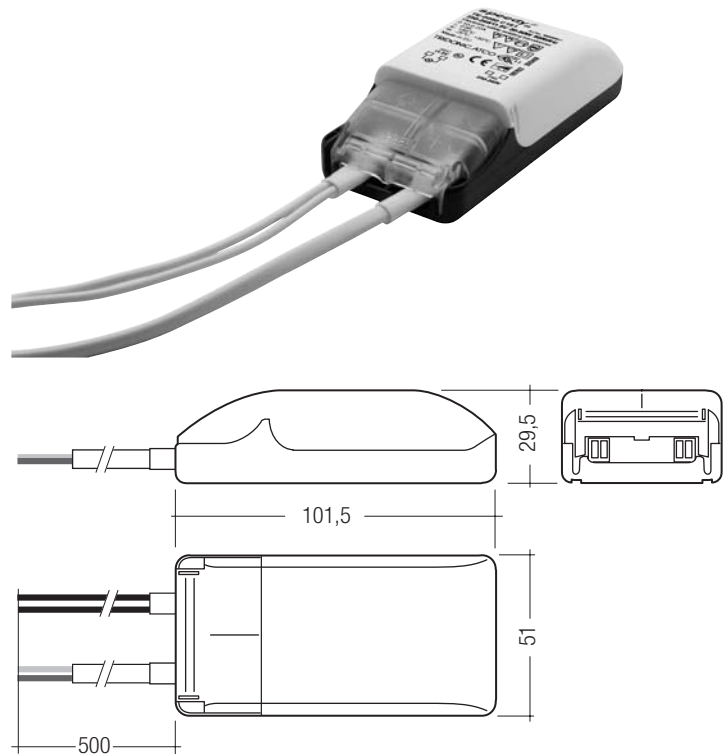
Protection class	II
Mains frequency	50 / 60 Hz
λ	> 0.95



Product matrix, page 280

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Ordering data

Lamp wattage	Dimensions LxWxH	Dimming	Type	Article number
20 – 50 VA	101.5 x 51 x 29.5 mm	Leading-edge and trailing-edge phase control	TE-0050 C161	89899837
20 – 70 VA	101.5 x 51 x 29.5 mm	Leading-edge and trailing-edge phase control	TE-0070 C161	89899838
35 – 105 VA	101.5 x 51 x 29.5 mm	Leading-edge and trailing-edge phase control	TE-0105 C161	89899839

Packaging: 10 pieces/carton, 500 pieces/pallet

Specific technical data

Type	Rated supply voltage AC	Rated current (at 230 V 50 Hz)	Secondary voltage 230 V	Secondary voltage 230 V	Operating frequency	Ambient temperature t_a	Max. casing temperature	Soft-start	Weight	Secondary terminal
TE-0050 C161	230 – 240 V	0.215 A	11.5 V	11.7 V	60 kHz	-20 ... +50 °C	85 °C	< 1 s	0.105 kg	4-pin
TE-0070 C161	230 – 240 V	0.300 A	11.5 V	11.7 V	55 kHz	-20 ... +50 °C	85 °C	< 1 s	0.108 kg	4-pin
TE-0105 C161	230 – 240 V	0.450 A	11.5 V	11.7 V	40 kHz	-20 ... +45 °C	85 °C	< 1 s	0.120 kg	4-pin



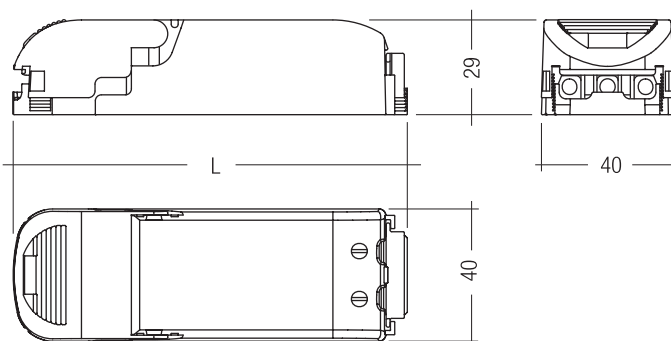
TE VIPER, 60 – 105 VA 230 – 240/12 V 50/60 Hz
Dimming via leading-edge and trailing-edge phase dimmers

Product description

- Short-circuit shutdown feature with automatic restart
 - Compact dimensions
 - Overtemperature and overload protection
 - Large connection compartment
 - With soft start (< 1 s)
 - Double assignment of the terminal possible
 - Screw terminals for rigid and flexible wires
 - Ground terminal for through-wiring
 - Rapid installation of cable clamp and terminal cover, no tool required
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Protection class	II
Mains frequency	50 / 60 Hz
λ	> 0.95



Ordering data

Lamp wattage	Dimensions LxWxH	Dimming	Type	Article number
20 – 60 VA	120 x 40 x 29 mm	Leading-edge and trailing-edge phase control	TE VIPER 60 VA	22176072
35 – 105 VA	141 x 40 x 29 mm	Leading-edge and trailing-edge phase control	TE VIPER 105 VA	22176074

Packaging: 20 pieces/carton, 5040 pieces/pallet

Specific technical data

Type	Rated supply voltage AC	Rated current (at 230 V 50 Hz)	Secondary voltage 230 V	Secondary voltage 230 V	Operating frequency	Ambient temperature t_a	Max. casing temperature	Soft-start	Weight	Output terminal
TE VIPER 60 VA	230 – 240 V	0.26 A	11.3 V	11.6 V	55 kHz	0 ... +50 °C	70 °C	< 1 s	0.100 kg	2-pin
TE VIPER 105 VA	230 – 240 V	0.45 A	11.0 V	11.5 V	45 kHz	0 ... +45 °C	85 °C	< 1 s	0.126 kg	4-pin



TE VIPER, 60 – 105 VA 230 – 240/11.6 V 50/60 Hz with cable
Dimming via leading-edge and trailing-edge phase dimmers

Product description

- Short-circuit shutdown feature with automatic restart
 - Compact dimensions
 - Overtemperature and overload protection
 - Large connection compartment
 - With soft start (< 1 s)
 - Double assignment of the terminal possible
 - Screw terminals for rigid and flexible wires
 - Ground terminal for through-wiring
 - Cable, secondary: silicon insulated 60 – 180 °C, 2x1.5 mm², 0.5 m
 - Rapid installation of cable clamp and terminal cover, no tool required
- For product data sheet go to www.tridonic.com, or available on request

Technical data

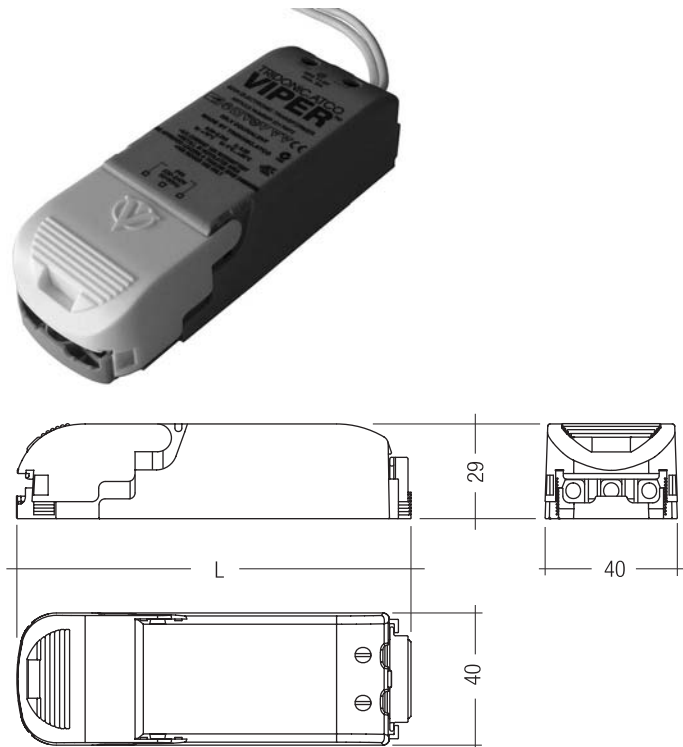
Protection class	II
Mains frequency	50 / 60 Hz
λ	> 0.95



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Ordering data

Lamp wattage	Dimensions LxWxH	Dimming	Type	Article number
20 – 60 VA	120 x 40 x 29 mm	Leading-edge and trailing-edge phase control	VIPER 60 VA	22176150
35 – 105 VA	141 x 40 x 29 mm	Leading-edge and trailing-edge phase control	VIPER 105 VA	22176181

Packaging: 20 pieces/carton, 3960 pieces/pallet

Specific technical data

Type	Rated supply voltage AC	Rated current (at 230 V 50 Hz)	Secondary voltage 230 V	Secondary voltage 230 V	Operating frequency	Ambient temperature t_a	Max. casing temperature	Soft-start	Weight	Output terminal
VIPER 60 VA	230 – 240 V	0.26 A	11.3 V	11.6 V	55 kHz	0 ... +50 °C	70 °C	< 1 s	0.100 kg	Cable 0.5 m
VIPER 105 VA	230 – 240 V	0.45 A	11.0 V	11.5 V	45 kHz	0 ... +45 °C	85 °C	< 1 s	0.126 kg	Cable 0.5 m

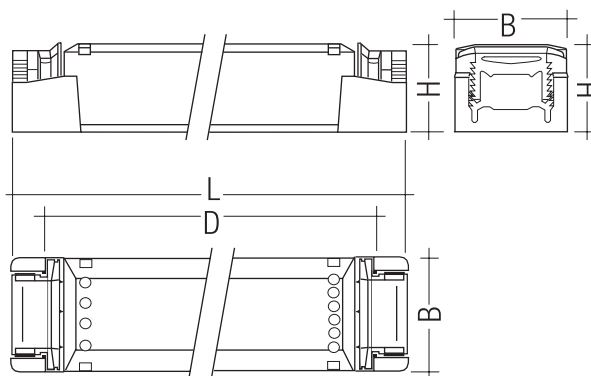


TE-T, 20 – 105 VA 230 – 240/12 V 0/50/60 Hz

Dimming via single or double momentary-action switch

Product description

- Independent device with integrated cable clamp and terminal cover
 - Constant output voltage
 - Dimming via switch or double switch
 - Short-circuit shutdown feature with automatic restart
 - With soft start
 - Overtemperature and overload protection by reducing power and automatic restart
 - Cage-type screw terminal
 - 6-pole terminal on secondary side
 - Primary-side through-wiring
 - Double assignment of the terminal possible
 - Practical individual packaging with assembly instructions
 - Rapid installation of cable clamp and terminal cover, no tool required
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Protection class	II
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 94 %
λ	> 0.95
Power circuitry	yes

Ordering data

Lamp wattage	Dimensions LxWxH	Distance between mounting holes (D)	Dimming	Type	Article number
35 – 70 VA	167 x 42 x 31 mm	143 – 148 mm	Switch or double switch	TET 70VA	22082690
35 – 105 VA	167 x 42 x 31 mm	143 – 148 mm	Switch or double switch	TET 105VA	22082684

Packaging: 20 pieces/carton, 800 pieces/pallet

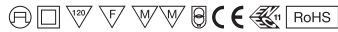
→ **Product matrix**, page 280

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Specific technical data

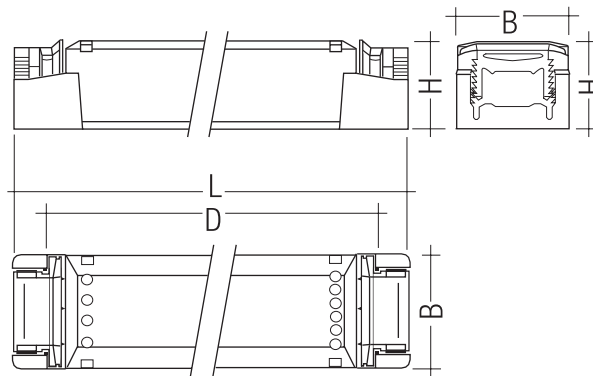
Type	Rated supply voltage AC	Rated current (at 230 V 50 Hz)	Secondary voltage	Operating frequency	Ambient temperature t_a	Max. casing temperature	Soft-start	Weight	Output terminal
TET 70VA	230 – 240 V	0.33 A	11.9 V	33 kHz	-20 ... +60 °C	95 °C	yes	0.17 kg	6-pin
TET 105VA	230 – 240 V	0.46 A	11.9 V	33 kHz	-20 ... +50 °C	95 °C	yes	0.17 kg	6-pin



TE-U 1 ... 10 V sc, 20 – 105 VA 230 – 240/12 V 0/50/60 Hz
Dimming 1...10 V

Product description

- Independent device with integrated cable clamp and terminal cover
 - Dimming range 1 to 100 %
 - Control via 1 – 10 V interface
 - For emergency lighting systems as per EN 50172
 - Short-circuit shutdown feature with automatic restart
 - With soft start
 - Overtemperature and overload protection
by reducing power and automatic restart
 - 6-pole terminal on secondary side
 - Cage-type screw terminal
 - Practical individual packaging with assembly instructions
 - Rapid installation of cable clamp and terminal cover, no tool required
- For product data sheet go to www.tridonic.com,
or available on request



Technical data

Protection class	II
Type of protection	IP20
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 94 %
λ	> 0.9



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Wiring diagrams and installation examples, page 297

Ordering data

Lamp wattage	Dimensions LxWxH	Distance between mounting holes (D)	Dimming	Type	Article number
20 – 105 VA	167 x 42 x 31 mm	143 – 148 mm	1-10 V DC or potentiometer 100 kΩ log.	TE 0105 U	86457964

Packaging: 20 pieces/carton, 800 pieces/pallet

Specific technical data

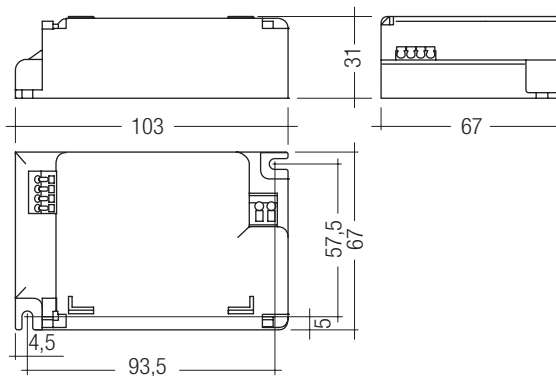
Type	Rated supply voltage AC	Rated supply voltage DC	Rated current (at 230 V 50 Hz)	Secondary voltage	DC lamp output	Operating frequency	Ambient temperature t_a	Max. casing temperature	Soft-start	Weight	Output terminal
TE 0105 U	230 – 240 V	230 – 240 V	0.45 A	11.9 V	70 %	32 kHz	-25 ... +55 °C	90 °C	yes	0.18 kg	6-pin



TE 0105 one4all cc, 20 – 105 VA 230 – 240/12 V 0/50/60 Hz
Dimming one4all

Product description

- Dimming range 1 to 100 %
 - For emergency lighting systems as per EN 50172
 - Compact design for luminaire installation
 - Short-circuit shutdown feature with automatic restart
 - With soft start
 - Noise-free precise control via one4all-interface DALI, DSI, switchDIM
 - Fault reporting and programmable operating parameters in DALI and DSI mode
 - Overtemperature and overload protection by reducing power and automatic restart
 - Dimming by means of symmetrical leading-edge phase dimmer
 - 2-pole output terminal
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Protection class	II
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 95 %
λ	> 0.95

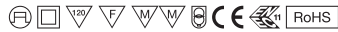
Ordering data

Lamp wattage	Dimensions LxWxH	Distance between mounting holes (D)	Dimming	Type	Article number
20 – 105 VA	103 x 67 x 31 mm	91.5 – 95.5 mm	DSI, DALI, switchDIM – single switch	TE-0105 one4all cc	86456435

Packaging: 15 pieces/carton, 495 pieces/pallet

Specific technical data

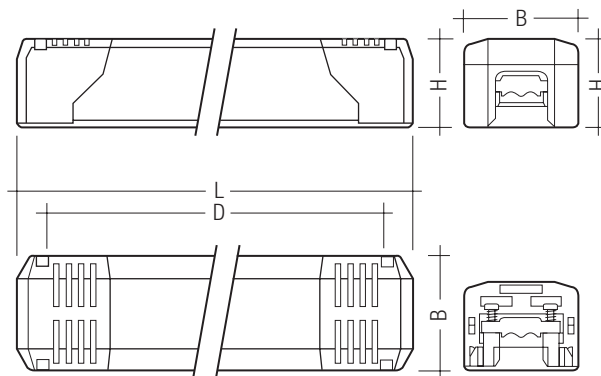
Type	Rated supply voltage AC	Rated supply voltage DC	Rated current (at 230 V 50 Hz)	Secondary voltage	DC lamp output	Operating frequency	Ambient temperature t_a	Max. casing temperature	Soft-start	Weight	Output terminal
TE-0105 one4all cc	230 – 240 V	230 – 240 V	0.4 A	11.8 V	70 %	33 kHz	-25 ... +60 °C	90 °C	yes	0.15 kg	2-pin



TE 0105 one4all sc, 20 – 105 VA 230 – 240/12 V 0/50/60 Hz
Dimming one4all

Product description

- Independent device with integrated cable clamp and terminal cover
 - Dimming range 1 to 100 %
 - For emergency lighting systems as per EN 50172
 - Short-circuit shutdown feature with automatic restart
 - With soft start
 - Noise-free precise control via one4all-interface DALI, DSI, switchDIM
 - Fault reporting and programmable operating parameters in DALI and DSI mode
 - Overtemperature and overload protection by reducing power and automatic restart
 - Rapid installation of cable clamp and terminal cover, no tool required
 - 6-pole terminal on secondary side
 - Cage-type screw terminal
 - Practical individual packaging with assembly instructions
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Protection class	II
Type of protection	IP20
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 94 %
λ	> 0.95



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Ordering data

Lamp wattage	Dimensions LxWxH	Distance between mounting holes (D)	Dimming	Type	Article number
20 – 105 VA	167 x 42 x 31 mm	143 – 148 mm	DSI, DALI, switchDIM – single switch	TE 0105 one4all sc	86457873

Packaging: 20 pieces/carton, 800 pieces/pallet

Specific technical data

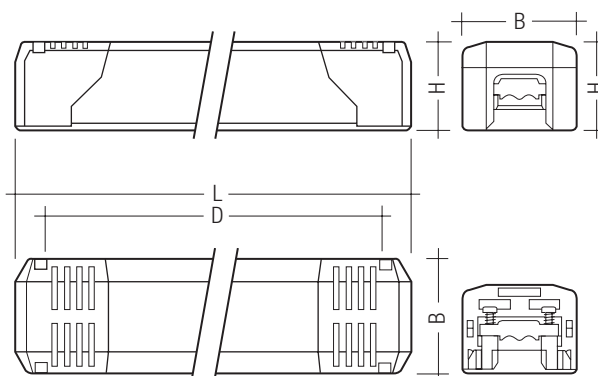
Type	Rated supply voltage AC	Rated supply voltage DC	Rated current (at 230 V 50 Hz)	Secondary voltage	DC lamp output	Operating frequency	Ambient temperature t_a	Max. casing temperature	Soft-start	Weight	Output terminal
TE 0105 one4all sc	230 – 240 V	230 – 240 V	0.46 A	11.8 V	70 %	29 kHz	-25 ... +55 °C	90 °C	yes	0.18 kg	6-pin



TE 0150 one4all sc, 50 – 150 VA 230 – 240/12 V 0/50/60 Hz
Dimming one4all

Product description

- Independent device with integrated cable clamp and terminal cover
 - Dimming range 1 to 100 %
 - For emergency lighting systems as per EN 50172
 - Short-circuit shutdown feature with automatic restart
 - With soft start
 - Noise-free precise control via one4all-interface DALI, DSI, switchDIM
 - Fault reporting and programmable operating parameters in DALI and DSI mode
 - Overtemperature and overload protection by reducing power and automatic restart
 - Load range 50 – 150 VA
 - Primary-side through-wiring
 - 8-pole terminal on secondary side
 - Practical individual packaging with assembly instructions
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Protection class	II
Type of protection	IP20
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 95 %
λ	> 0.95

Ordering data

Lamp wattage	Dimensions LxWxH	Distance between mounting holes (D)	Dimming	Type	Article number
50 – 150 VA	207 x 46 x 40 mm	170 – 174 mm	DSI, DALI, switchDIM – single switch	TE 0150 one4all sc	86457874

Packaging: 10 pieces/carton, 600 pieces/pallet



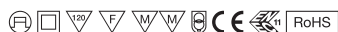
Product matrix, page 280

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Specific technical data

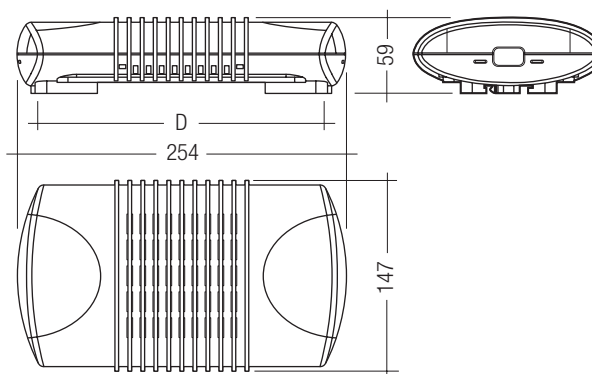
Type	Rated supply voltage AC	Rated supply voltage DC	Rated current (at 230 V 50 Hz)	Secondary voltage	DC lamp output	Operating frequency	Ambient temperature t_a	Max. casing temperature	Soft-start	Weight	Output terminal
TE 0150 one4all sc	230 – 240 V	230 – 240 V	0.61 A	11.8 V	70 %	33 kHz	-25 ... +50 °C	90 °C	yes	0.29 kg	8-pin spring terminal



TE-DC 2 D101 one4all, 100 – 300 VA 230 – 240/12 V 0/50/60 Hz
Dimming one4all

Product description

- Independent device with integrated cable clamp and terminal cover
 - Dimming range 1 to 100 %
 - For emergency lighting systems as per EN 50172
 - Constant output voltage
 - Short-circuit shutdown feature with automatic restart
 - With soft start
 - Noise-free precise control via one4all-interface DALI, DSI, switchDIM
 - Fault reporting and programmable operating parameters in DALI and DSI mode
 - Overtemperature and overload protection by reducing power and automatic restart
 - Quiet operation even when dimmed
 - Suitable for cable lengths up to 20 m
 - Integrated intelligent current monitor
 - Double assignment of the terminal possible
 - Practical individual packaging with assembly instructions
 - Rapid installation of the cable clamp, no tools required
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Protection class	II
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 90 %
λ	> 0.99
Power circuitry	digital

Ordering data

Lamp wattage	Dimensions LxWxH	Distance between mounting holes (D)	Dimming	Type	Article number
100 – 300 VA	254 x 147 x 59 mm	218 – 226 mm	DSI, DALI, switchDIM – single switch	TE-DC 2 0300 D101 white	86458498
100 – 300 VA	254 x 147 x 59 mm	218 – 226 mm	DSI, DALI, switchDIM – single switch	TE-DC 2 0300 D101 grey	86458469

Packaging: 10 pieces/carton, 120 pieces/pallet



Product matrix, page 280

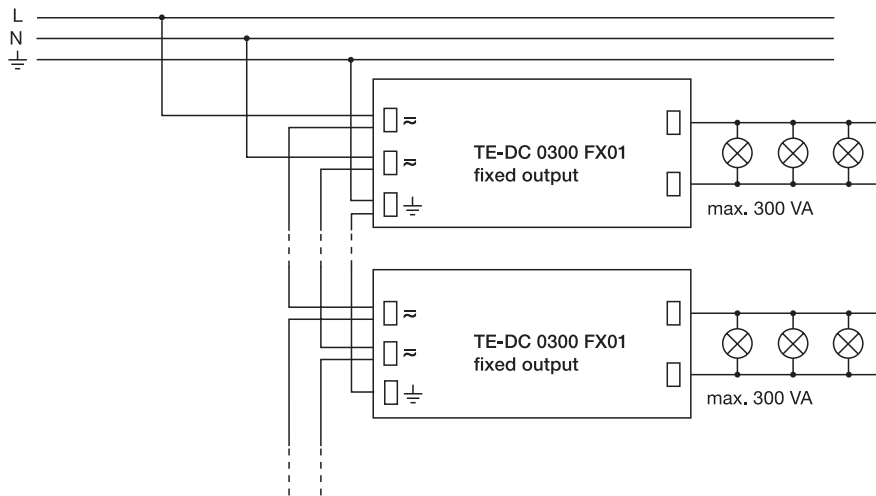
Standards, page 280

Wiring diagrams and installation examples, page 297

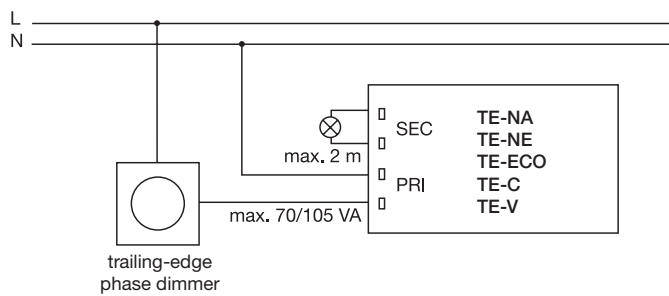
Specific technical data

Type	Rated supply voltage AC	Rated supply voltage DC	Rated current (at 230 V 50 Hz)	Secondary voltage	DC lamp output	Ambient temperature t_a	Max. casing temperature	Current monitor	Soft-start	Weight	Output terminal
TE-DC 2 0300 D101	230 – 240 V	230 – 240 V	1.45 A	11.9 V	70 %	-20 ... +35 °C	100 °C	yes	yes	0.8 kg	2-pin, screw terminal
TE-DC 2 0300 D101	230 – 240 V	230 – 240 V	1.45 A	11.9 V	70 %	-20 ... +35 °C	100 °C	yes	yes	0.8 kg	2-pin, screw terminal

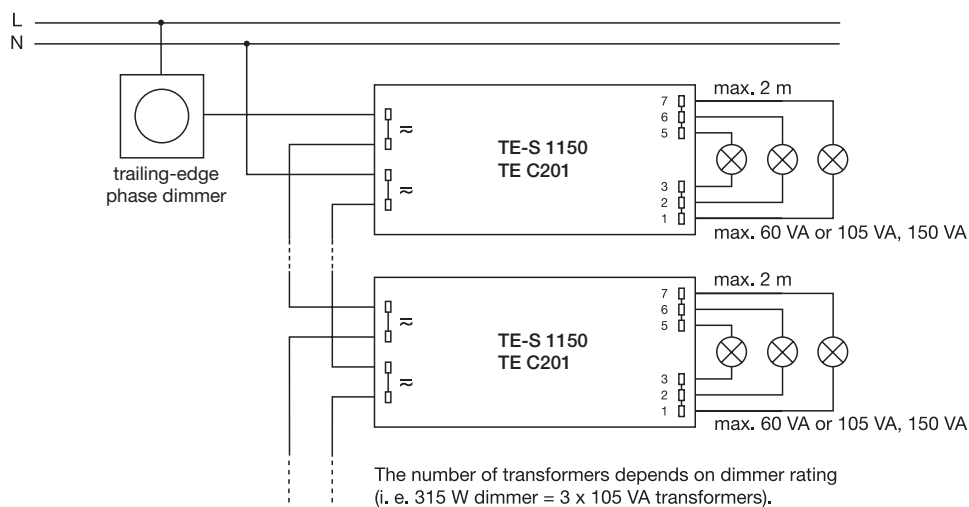
TE-DC: Connection diagram for TE-DC F101 for an output of 300 VA



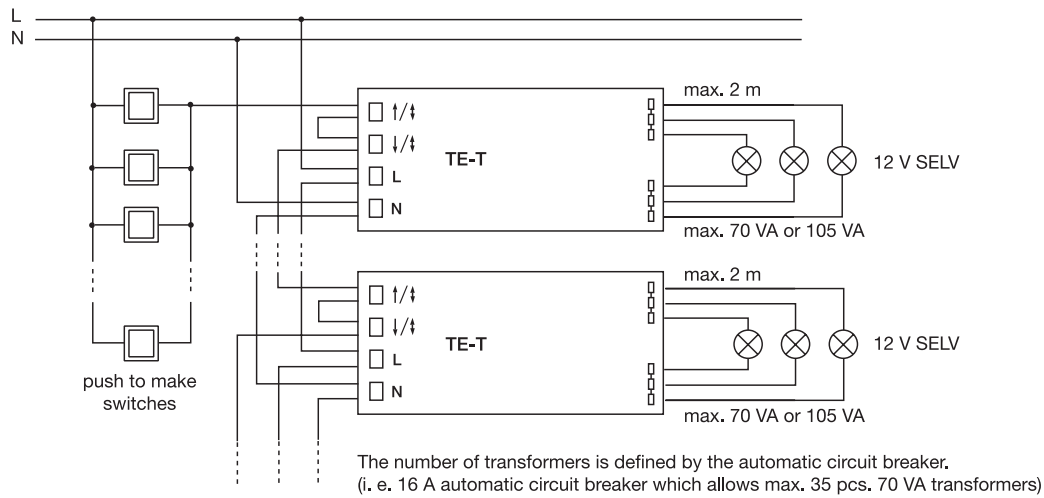
TE-C/TE-ECO/TE-NE/VIPER with trailing-edge phase dimmer



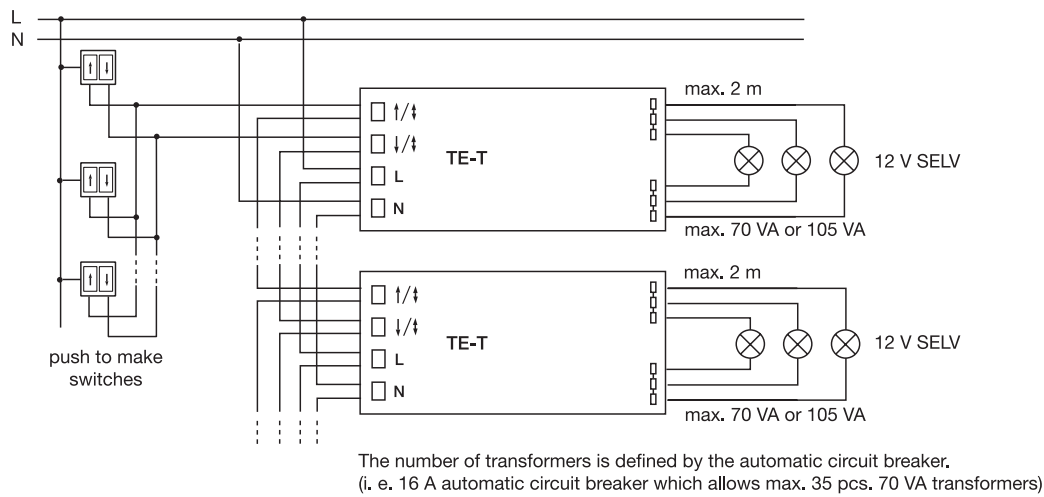
TE-S/TE C201 Connection diagram for outputs of 20 – 70 VA, 35 – 105 VA, 50 – 150 VA



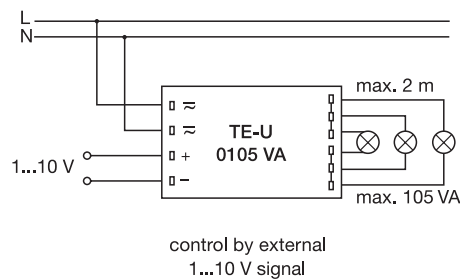
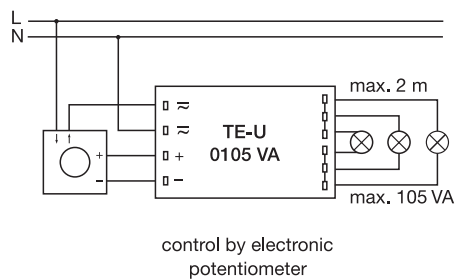
TE-T: Single-switch operation



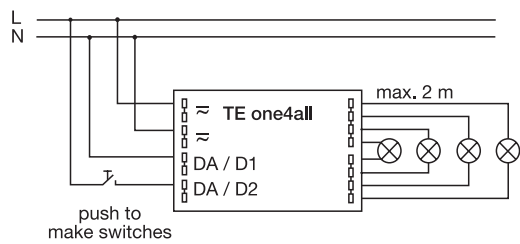
TE-T: Double-switch operation



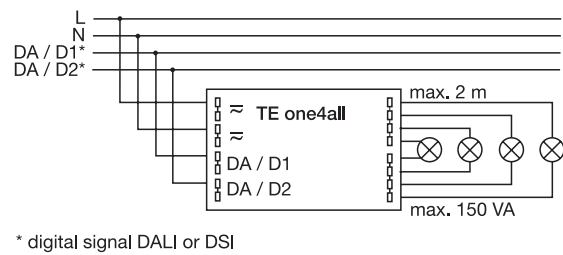
TE-U 20 – 105 VA



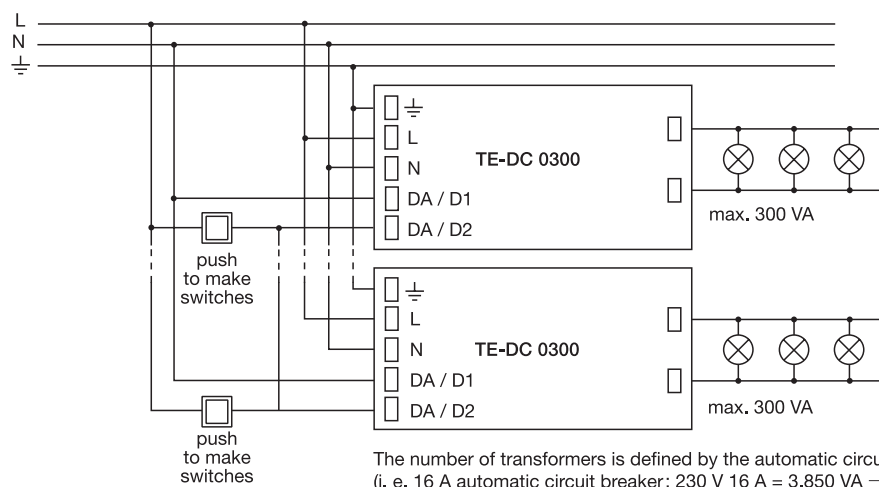
TE one4all: Wiring diagram switchDIM



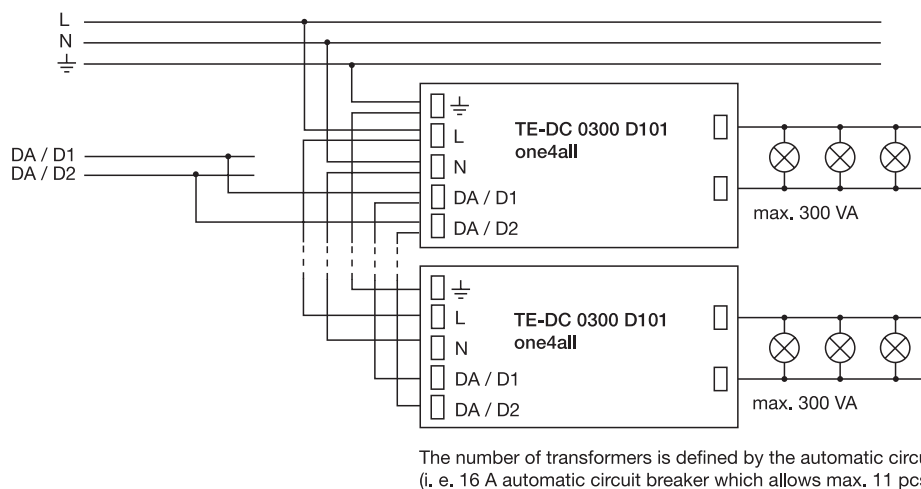
TE one4all: Wiring diagram DALI/DSI



TE-DC: Wiring diagram switchDIM for TE-DC D101 for 300 VA



TE-DC: Wiring diagram DALI/DSI for TE-DC D101 for 300 VA



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Product / function matrix Page 306

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Emergency lighting units for all needs Page 308

Instructions for selecting devices and batteries in the BLF table Page 311

Series EM**Version BASIC**

EM BASIC 230 – 240 V 50/60 Hz Page 312

EM MINI BASIC 220 – 240 V 50/60 Hz Page 316

EM T5 BASIC 220 – 240 V 50/60 Hz Page 318

EM BASIC Ip 220 – 240 V 50/60 Hz Page 321

Version SELFTEST

EM SELFTEST 220 – 240 V 50/60 Hz Page 326

Version PRO

EM PRO EZ-3 220 – 240 V 50/60 Hz Page 331

Series PC**Linear lamps**

PC COMBO 220 – 240 V 50/60 Hz Page 336

PC T5 COMBO Ip 220 – 240 V 50/60 Hz Page 339

Compact lamps

PC TC-L COMBO 220 – 240 V 50/60 Hz Page 344

PC CFL COMBO 220 – 240 V 50/60 Hz Page 347

PC CFL E COMBO 230 – 240 V 50/60 Hz Page 352

Series LED**TALEX emergency lighting modules**

TALEXstrip ES Page 354

TALEXengine EM-AP Page 356

TALEXengine EM-ER Page 357

Emergency lighting supply units

EM powerLED BASIC Page 358

EM powerLED ST Page 361

EM powerLED PRO EZ-3 Page 364

Controls**Emergency lighting control gear**

e-touchBOX Page 367

e-touchPANEL Page 368

Batteries**Nickel cadmium cells (NiCd)**

NiCd 1.5 Ah Cs-cells + NiCd 4.0 Ah D-cells Page 369

Remote pack NiCd Page 371

Nickel metal hydride cells (NiMH)

NiMH 2.0 Ah Cs-cells + NiMH 4.0 Ah Cs-cells Page 372

Emergency lighting unit
for manual performance
of all test and inspection
algorithms

Continual monitoring
of automatic test and
inspection algorithms

Combination of ECG and
emergency lighting unit

Product overview

**EM BASIC**

Portfolio: T5, T8, TC-DD, TC-L, TC-SEL, TC-DEL, TC-TEL

Emergency lighting unit for manual testing:

- For linear and compact fluorescent lamps
- 1 or 3 h rated operating time
- Small dimensions (28 x 39 mm cross-section)
- 5-pole technology
- NiCd batteries

**EM T5 BASIC**

Portfolio: T5

Emergency lighting unit for manual testing:

- For T5 linear lamps
- 1 h or 3 h rated operating time
- Low-profile casing (21 x 30 mm cross-section)
- 5-pole technology
- NiCd and NiMH batteries

**EM MINI BASIC**

Portfolio: TC-DD, TC-F, TC-DEL, TC-TEL, T5c

Emergency lighting unit for manual testing:

- For compact fluorescent lamps
- 3 h rated operating time
- Small dimensions (28 x 40 mm cross-section, 150 mm length)
- 5-pole technology
- NiCd and NiMH batteries

**EM BASIC LP**

Portfolio: T5, T8, TC-DD, TC-L, TC-F, TC-SEL, TC-DEL, TC-TEL, T5c

Emergency lighting unit for manual testing:

- For linear and compact fluorescent lamps
- 1 or 3 h rated operating time
- Low-profile casing (21 x 30 mm cross-section)
- 5-pole technology
- NiCd and NiMH batteries

**EM SELFTEST**

Portfolio: T5, T8, TC-DD, TC-L, TC-F, TC-SEL, TC-DEL, TC-TEL, T5c

Emergency lighting supply unit with self-test function:

- For linear and compact fluorescent lamps
- 1 or 3 h rated operating time
- Low-profile casing (21 x 30 mm cross-section)
- 5-pole technology
- Self-test: battery, lamp, charge status
- NiCd and NiMH batteries

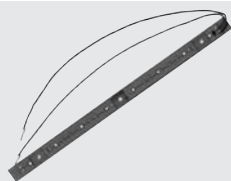
**EM PRO EZ-3**

Portfolio: T5, T8, TC-DD, TC-L, TC-F, TC-SEL, TC-DEL, TC-TEL, T5c

Emergency lighting supply unit with DALI interface and automatic test function:

- For linear and compact fluorescent lamps
- 1 or 3 h rated operating time
- Low-profile casing (21 x 30 mm cross-section)
- 5-pole technology
- Tests: battery, lamp, charge status
- NiCd and NiMH batteries

Product overview

**TALEXstrip ES**

Lighting module with 8, 10 or 12 high-power LEDs (emergency lighting strip):

- For use in escape route signs
- For permanent and standby operation
- Replacement for 8 W T5 linear lamps
- Low energy consumption
- Long life for maintenance-free escape sign system

**TALEXengine EM-AP**

Latest generation LED light source:

- High-power LED in COB technology
- For anti-panic emergency lighting
- Small dimensions
- Long life thanks to integrated heat removal
- Integrated two-colour status LED

**TALEXengine EM-ER**

Latest generation LED light source:

- High-power LED in COB technology
- For escape route lighting
- Small dimensions
- Long life thanks to integrated heat removal
- Integrated two-colour status LED

**EM powerLED BASIC**

Portfolio: LED

LED emergency lighting supply unit for manual testing:

- Mains and emergency operation
- Low-profile casing (21 x 30 mm cross-section)
- 1, 2 or 3 h rated operating time
- 1 or 2 W version
- SELV classified (outputs powerLED, battery, status LED, test switch)
- NiMH batteries

**EM powerLED ST**

Portfolio: LED

LED emergency lighting supply unit with self-test function:

- Mains and emergency operation
- Low-profile casing (21 x 30 mm cross-section)
- 1, 2 or 3 h rated operating time
- 1 or 2 W version
- Tests: battery, lamp, charge status
- SELV classified (outputs powerLED, battery, status LED, test switch)
- NiMH batteries

**EM powerLED PRO EZ-3**

Portfolio: LED

LED emergency lighting supply unit with DALI interface and automatic test function:

- Mains and emergency operation
- DALI switchable in mains operation (on/off)
- 1, 2 or 3 h rated operating time
- 1 or 2 W version
- Tests: battery, lamp, charge status
- SELV classified (outputs powerLED, battery, status LED, test switch)
- NiMH batteries

Product overview

**PC COMBO**

Portfolio: T5, T8

Combination of electronic ballast and emergency lighting unit:

- For manual testing of the emergency lighting function
- For T5 and T8 fluorescent lamps
- Simple wiring
- 1 or 3 h rated operating time
- NiCd and NiMH batteries

**PC TC-L COMBO**

Portfolio: TC-L

Combination of electronic ballast and emergency lighting unit:

- For manual testing of the emergency lighting function
- For TC-L compact fluorescent lamps
- Simple wiring
- 3 h rated operating time
- NiCd and NiMH batteries

**PC T5 COMBO Ip**

Portfolio: T5

Combination of electronic ballast and emergency lighting unit:

- For manual testing of the emergency lighting function
- For T5 fluorescent lamps
- Low-profile casing (21 x 30 mm cross-section)
- Simple wiring
- 1 or 3 h rated operating time
- NiCd and NiMH batteries

**PC CFL COMBO**

Portfolio: TC-DD, TC-DEL, TC-TEL

Combination of electronic ballast and emergency lighting unit:

- For manual testing of the emergency lighting function
- For compact fluorescent lamps
- Simple wiring
- IDC (insulation displacement connection)
- 1 or 3 h rated operating time
- NiCd and NiMH batteries

**PC CFL E COMBO**

Portfolio: 28 W TC-DD

Combination of electronic ballast and emergency lighting unit:

- For manual testing of the emergency lighting function
- For 28 W TC-DD compact fluorescent lamps
- Simple wiring
- Plug-in terminal
- 3 h rated operating time
- NiCd batteries

Product overview

**e-touchBOX**

Emergency lighting system for 60 DALI emergency lighting units:

- Integrated DALI bus supply
- For small installations
- Calendar-controlled function and service life test
- Colour touch screen (5.7 ")
- User-friendly application software
- Easy-to-read system status

**e-touchPANEL**

Emergency lighting system for 120 DALI emergency lighting units:

- 2 DALI circuits for 60 emergency lighting units each
- For small and medium-size installations
- Calendar-controlled function and service life test
- User-friendly application software
- Simple downloading of the test report to a PC via Ethernet
- Panels can be connected together to create large installations
- Can be remote-controlled via standard internet browser or em-LINK software

**NiCd batteries 4.0 Ah / 1.5 Ah**

High-temperature NiCd cells for use with emergency lighting units:

- Constant high-temperature operation at 55 °C
- 4-year life operating at maximum temperature
- In various configurations
- High-quality European manufacturer
- Suitable for emergency lighting equipment as per IEC 60598-2-22

**NiMH batteries 4.0 Ah / 2.0 Ah**

High-temperature NiMH cells for use with emergency lighting units:

- Eco-friendly because there is no cadmium
- Low profile, 22 mm cross-section
- 4-year life operating at maximum temperature
- High-quality European manufacturer
- Suitable for emergency lighting equipment as per IEC 60598-2-22

**NiCd battery pack 4.0 Ah / 1.5 Ah**

High-temperature NiCd battery pack for use with emergency lighting units:

- 4-year life operating at maximum temperature
- Polycarbonate casing material
- 1.0 m integrated double-insulated cable
- High-quality European manufacturer
- Suitable for emergency lighting equipment as per IEC 60598-2-22

Standards – Product/function matrix

Series	Type	Page	acc. to EN 50172	acc. to EN 60598-2-22	EN 61347-2-3	EN 61347-2-7	EN 61347-2-13	EN 60929	EN 62384	EN 60730	EN 62031	EN 62034	EN 55015	EN 55022	EN 61000-3-2	EN 61000-3-3	EN 61547	EN 61000-6-2	EN 60068-2-64	EN 60068-2-29	EN 60068-2-30
EM	EM BASIC	Page 312	•	•		•		•					•		•	•	•		•	•	•
	EM MINI BASIC	Page 316	•	•		•		•					•		•	•	•		•	•	•
	EM T5 BASIC	Page 318	•	•		•		•					•		•	•	•		•	•	•
	EM BASIC Ip	Page 321	•	•		•		•					•		•	•	•		•	•	•
	EM SELFTEST	Page 326	•	•		•		•				•	•		•	•	•		•	•	•
	EM PRO EZ-3	Page 331	•	•		•		•				•	•		•	•	•		•	•	•
PC	PC COMBO	Page 336	•	•	•	•		•					•		•	•	•		•	•	•
	PC T5 COMBO Ip	Page 339	•	•	•	•		•					•		•	•	•		•	•	•
	PC TC-L COMBO	Page 344	•	•	•	•		•					•		•	•	•		•	•	•
	PC CFL COMBO	Page 347	•	•	•	•		•					•		•	•	•		•	•	•
	PC CFL E COMBO	Page 352	•	•	•	•		•					•		•	•	•		•	•	•
LED	TALEXstrip ES	Page 354									•										
	TALEXengine EM-AP 003	Page 356									•										
	TALEXengine EM-ER 003	Page 357									•										
	EM powerLED BASIC	Page 358	•	•			•		•				•		•	•	•		•	•	•
	EM powerLED ST	Page 361	•	•			•		•			•	•		•	•	•		•	•	•
	EM powerLED PRO EZ-3	Page 364	•	•			•		•			•	•		•	•	•		•	•	•
DALI	e-touchBOX	Page 367								•			•	•	•	•	•	•			
	e-touchPANEL	Page 368								•			•	•	•	•	•	•			
Battery	Batteries NiCd	Page 369		•																	
	Batteries NiMH	Page 372		•																	

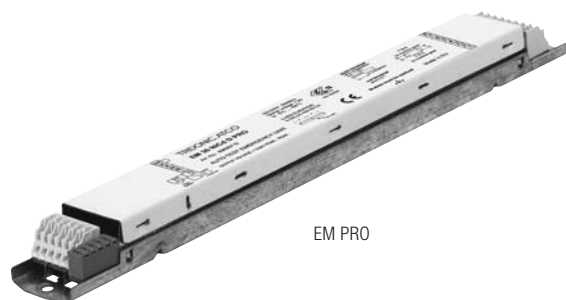
	Low profile 21 x 30mm	IDC terminals	5-pole technology	Optional test switch	3 hours of operation	2 hours of operation	1 hour of operation	Deep discharge protection	Polarity reversal protection for battery	Short-circuit-proof battery connection	NIMH battery compatibility	Multi-level charge system	Tested manually	Tested automatically – self-test	Tested automatically – DALI	EZ Easy Addressing System	Boost start	Rest mode
		•	•	•	•		•	•	•	•			•					
		•	•		•			•	•	•	•		•					
	•	•	•	•	•		•	•	•	•	•		•					•
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Emergency lighting units for all needs



Emergency lighting systems are compulsory in many official buildings and in many workplaces so that in the unlikely event of a power failure people can find their way around safely. Safety lights and escape route lights provide enough light to shut machinery down, use the escape routes and give quick access to fire extinguishers and other safety equipment. They prevent panic and save lives.

Tridonic offers a broad range of emergency lighting units for battery powered emergency lighting systems perfectly matched to the requirements of various country-specific standards – whatever the circumstances and whatever the types of lamp.



The range comprises EM BASIC, PC COMBO, EM SELFTEST, EM PRO and EM powerLED units, covering everything from the simple to the highly intelligent, and from low-cost units to high-end solutions.

Properties for greater safety

Electrode heating, “Boost Start” and an optimised ballast-lumen factor in the emergency lighting units from Tridonic ensure optimum lamp function in emergency lighting mode. In addition, five-pole technology ensures compatibility, safety and reliability. Four relay poles switch the lamp, the fifth relay pole guarantees delayed reconnection of the control gear to the mains power supply when this returns.

This means the units are compatible with digital dimmable and non-dimmable electronic control gear.

The units can be used in permanent or standby mode. In other words, the emergency lighting units together with the ECG or CCG are either responsible for normal operation of the lamp or – if directly connected – just emergency lighting operation. The relevant versions guarantee emergency lighting for 1 or 3 hours of rated output.

The intelligent multi-level charging system from Tridonic offers “gentle operation” on the EM BASIC Ip, EM SELFTEST, EM PRO and EM powerLED emergency lighting units, thereby guaranteeing long life for both rechargeable nickel cadmium (NiCd) and nickel metal hydride (NiMH) batteries.

Tridonic expertise in emergency lighting is the perfect basis for intelligent solutions.

Long equipment life

Thanks to their high-quality components, intelligent circuit design and extensive testing under rated conditions, emergency lighting units from Tridonic achieve an average life of 50,000 hours – with a probability of failure of less than 10 %; in other words, an average failure rate of 0.2 % per 1,000 hours of operation.

Constant high quality

The consistently high quality and reliability of the Tridonic emergency lighting units are guaranteed by the use of high-grade materials together with manufacturing processes certified to ISO 9001. Fully automatic manufacture ensures constant reproducible quality. All units are subjected to 100 % final testing and safety testing.

Standards and approval marks

Emergency lighting units from Tridonic are ENEC certified, carry the CE and C tick mark and meet all the European as well as international standards relating to safety, operation and electromagnetic compatibility (EMC).

Cost-effective emergency lighting

The EM BASIC units have been designed for cost-effective emergency lighting systems in which all the testing and monitoring algorithms are to be performed manually. This simple solution covers the entire range of T5, T8 and compact fluorescent lamps.

The EM T5 BASIC emergency lighting unit shares the same simple design. Thanks to its low-profile casing measuring just 21 mm high, it is ideal for use in small and stylish luminaires fitted with T5 lamps.

Single-component solution

PC COMBO combines standard control gear and emergency lighting unit in one device. This greatly simplifies the wiring and installation of emergency luminaires. The one to four-lamp versions of PC COMBO for T8 and T5 fluorescent lamps provide a high degree of flexibility.

The PC CFL COMBO single-component solution is suitable for emergency lighting systems based on one or two-lamp luminaires fitted with compact fluorescent lamps.

LED emergency lighting

The EM powerLED emergency lighting ballasts in conjunction with the TALEX light modules are ideal for a large number of emergency lighting applications. They can be installed as a separate system or integrated in the luminaire.



EM powerLED

Simplified testing

The EM SELFTEST emergency lighting unit with its automatic testing algorithms offers intelligence in an extremely small format. At just 21 mm high, the unit is compatible with T5 control gear. The perfectly matched range of units is designed for tubular or compact fluorescent lamps from 4 to 80 W.

In self-test mode the module uses a light-emitting diode to signal its operating status. Green means that the emergency lighting system is operating correctly. A red flashing LED indicates faulty batteries and a permanent red light indicates a lamp fault.

The test functions supported by the EM SELFTEST emergency lighting unit are continual monitoring, a weekly function test and an annual service life test. In charging mode both the charging conditions and the static battery stats are monitored.

The EM SELFTEST emergency lighting unit includes functionality for monitoring the installation phase, i.e. a period of time with an uninterrupted power supply on more than five successive days. As soon as this requirement is met the module automatically starts the commissioning and testing program. EM SELFTEST therefore complies with the commissioning test after installation prescribed in accordance with the self-test standard as per IEC 62034. This degree of automation considerably reduces the time needed for commissioning and programming the test algorithms.

Combination of emergency lighting and DALI

The special feature of EM PRO units from Tridonic is that they can be operated as individual systems or can be successfully integrated in DALI-based lighting systems. This means that the entire functionality of DALI systems can be accessed, including individual addressability.



e-touchBOX for controlling
and monitoring up to 60 DALI
emergency lighting units

Individually addressable emergency lighting units have a certain level of “intelligence”. In these cases, the fault reporting function provides more information than simply that the lamp, control gear or battery is faulty. Detailed information on, say, the type of lamp or device status can be displayed either locally or centrally. This extensive functionality of EM PRO emergency lighting units, which also have the “capabilities” of the EM SELFTEST module, has benefits in terms of facility management, particularly for operating large lighting systems.

Intelligent charging system

The intelligent multi-level charging system from Tridonic ensures that the charging behaviour is tailored to the particular battery type. As its name suggests, the multi-level charging system has three different charging cycles, namely initial charge, power charge mode and trickle charge mode.

Technical Information

The latest technical information can be downloaded from the internet: www.tridonic.com, “Technical Information”, submenu “Data sheets”

Personal enquiries

A form for personal enquiries is available on the internet at www.tridonic.com, menu “Contact”, submenu “Enquiry”

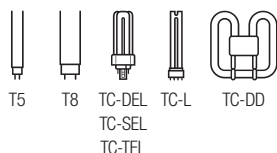
Instructions for selecting devices and batteries

EM SELFTEST for linear lamps, 3 or 1 h

	Duration	3 h			Standard 1 h			High Output 1 h		
	Cells	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells
	Type	EM 34 ST	EM 35 ST	EM 36 ST	EM 14 ST	EM 15 ST	EM 16 ST	EM 14 HO ST	EM 15 HO ST	EM 16 HO ST
	Article no.	89899680	89899681	89899682	89899683	89899684	89899685	89899686	89899687	89899688
Lamp type	Wattage									
	BLF in emergency lighting mode in % for rated operating time									
T5	4W	38			38			70		
	6W	43			43			73		
	8W	40			40			68		
	13W	27			27			52		
T5 FH	14W	24			24	②		47		
	21W		16			16			44	
	28W			14			14			42
	35W			12			12			36
	T5 F0	24W	16		13			30		
	39W			8			8			31
	49W			6			6			22
	54W			6			6			23
80W			5			5			15	
T8	15W	20			20			36		
	18W	16			16			33		
	30W	12			12			27		
	36W	10			10			23		
	38W		10			10				
	58W		8			8			18	
	70W			6			6			

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries				
NiCd 1.5 Ah Cs-cells	Stick	4	Accu-NiCd C 4A	89899692					
	Side by side	4	Accu-NiCd C 4B	89899693					
	Stick + Stick	2+2	Accu-NiCd C 4C	89899694					
	Stick	5	Accu-NiCd C 5A	89899695					
	Side by side	5	Accu-NiCd C 5B	89899696					
	Stick + Stick	3+2	Accu-NiCd C 5C	89899697					
	Stick	6	Accu-NiCd C 6A	89899698					
NiCd 4.0 Ah D-cells	Stick + Stick	3+3	Accu-NiCd C 6C	89899699					
	Stick	4	Accu-NiCd 4A	89895961					
	Side by side	4	Accu-NiCd 4B	89895977					
	Stick + Stick	2+2	Accu-NiCd 4C	89895978					
	Stick	5	Accu-NiCd 5A	89895973					
	Stick + Stick	3+2	Accu-NiCd 5B	89895962					
	Stick + Stick	3+3	Accu-NiCd 6A	89895963					
NiMH 2.0 Ah Cs-cells	Stick	4	Accu-NiMH C 4A	89899700					
	Stick	5	Accu-NiMH C 5A	89899703					
	Stick	6	Accu-NiMH C 6A	89899706					
	Stick + Stick	3+3	Accu-NiMH C 6C	89899707					
NiMH 4.0 Ah Cs-cells ①	Stick	4	Accu-NiMH C 4A	89899850					
	Stick	5	Accu-NiMH C 5A	89899851					
	Stick	6	Accu-NiMH C 6A	89899852					
	Stick + Stick	3+3	Accu-NiMH C 6C	89899853					

① Maximum battery housing temperature 50 °C

**EM BASIC, 230 – 240 V**

BASIC version

Product description

- Emergency lighting supply unit for manual testing
- For linear and compact fluorescent lamps
- Small dimensions (28 x 39 mm cross-section)

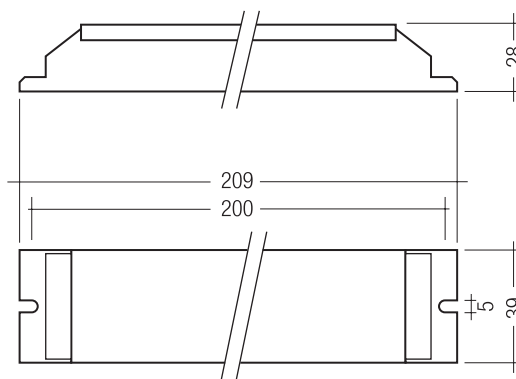
Properties

- 1 or 3 h rated duration
- Compatible with all electronic ballasts (dimmable and non-dimmable)
- Can also be used in combination with conventional magnetic ballasts
- 5-pole technology: 4-pole lamp changeover and delayed power switching for the ballast
- Optimised AC output voltage for TC-DD and TC-L lamps
- Optimised DC output voltage for T8 fluorescent lamps
- Cathode heating adapted for compact lamps
- Switchover relay with high-current contacts
- IDC (insulation displacement connection)
- Green charge status display LED
- Checking the emergency lighting function by interrupting the unswitched phase
- Optional test switch
- Deep discharge protection
- Battery connection, short-circuit protected (not reversible)
- Polarity reversal protection for battery

Batteries

- High-temperature cells
- NiCd batteries
- D cells
- Blade terminals for simple connection

→ For product data sheet go to www.tridonic.com, or available on request

**Technical data**

Rated supply voltage	230 – 240 V
Mains frequency	50 / 60 Hz
Mains current	0.04 A
Rated power	9 W
Battery charging time	24 h
Discharge current 1 h	2.25 A
Discharge current 3 h	1.1 A
Charge current	210 mA
Leakage current (PE)	0.5 mA
Ambient temperature ta	0 ... +50 °C
Max. casing temperature tc	75 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Min. lamp starting temperature (emergency operation)	0 °C
Type of protection	IP20
Protection class	I

Ordering data

Number of cells	Type	Article number
Rated operating time 3 h		
3	EM 33A BASIC	89818556
3	EM 33B BASIC	89818655
3	EM 33C BASIC	89800000
4	EM 34A BASIC	89818557
4	EM 34B BASIC ^①	89818662
5	EM 35A BASIC	89818581
5	EM 35B BASIC	89818667
5	EM 35C BASIC	89800001
5	EM 35D BASIC	89899621
6	EM 36A BASIC	89818654

Packaging: 25 pieces/carton, 750 pieces/pallet

^① EM 34B BASIC also available in 110 V AC version



Product matrix, page 306

Standards, page 306

Batteries, page 369

For wiring diagrams and installation examples see data sheet

Ordering data

Number of cells	Type	Article number
Rated operating time 1 h		
3	EM 13B BASIC	89895971
3	EM 13E BASIC	89899864
4	EM 14B BASIC	89899611

Packaging: 25 pieces/carton, 750 pieces/pallet

ACCES- ORIES

Test switch EM2

Product description

- For connection to the emergency lighting unit
- For checking the device function



Ordering data

Type	Article number
Test switch EM 2	89805277

Packaging: 25 pieces/bag, 200 pieces/carton

ACCES- ORIES

Status indication charging current

Product description

- A green LED indicates that charging current is flowing into the battery



Ordering data

Type	Article number
LED EM green	89899605
LED EM green, ultra high brightness	89899756

Packaging: 25 pieces/bag, 200 pieces/carton

EM BASIC for linear lamps, 1 h

				1 h	3 cells		4 cells
				Type	EM 13B BASIC	EM 13E BASIC ①	EM 14B BASIC
				Article no.	89895971	89899864	89899611
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time					
T8	18 W				22		25
	36 W				16		19
	58 W					10	14
Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries		
NiCd 4.0 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•	•	
	Side by side	3	Accu-NiCd 3B	89895976	•	•	
	Stick	4	Accu-NiCd 4A	89895961			•
	Side by side	4	Accu-NiCd 4B	89895977			•
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978			•

① For extended application of the lamp please see E 005en_EM BASIC_Extended Application_V1.pdf at www.tridonic.com.

EM BASIC for linear and compact lamps, 3 h

	3 h	3 cells			4 cells		5 cells				6 cells
	Type	EM 33A BASIC	EM 33B BASIC	EM 33C BASIC	EM 34A BASIC	EM 34B BASIC ④	EM 35A BASIC	EM 35B BASIC	EM 35C BASIC	EM 35D BASIC	EM 36A BASIC
	Article no.	89818556	89818655	89800000	89818557	89818662	89818581	89818667	89800001	89899621	89818654
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time									
T5	4W	25			30		37				44
	6W	26			32		40				48
	8W	27			32		40				48
	13W	25			30		37				44
	14W	16			21		32				
	21W				21 ①		21 ①				
	24W						19				
	28W							14 ②③			
T8	18W		10			12	18	13			
	30W		9			13	18	14			
	36W		8			10	16	10			
	58W					7		7			
	70W							7			
TC-DD	10W	27			30		39				46
	16W	24			24		31				37
	21W				20		25				30
	28W				19		21				25
	38W						15				18
	55W										14
TC-SEL	5W			20							
	7W			14							
	9W			11							
	11W			16							
TC-DEL	10W			13							
	13W			16							
	18W								12		
	26W								15		
TC-TEL	13W			10					16		
	18W								12		
	26W								15		
	32W									7	
	42W									5	
TC-L	18W	18			18		19				22
	24W				17		20				24
	34W					9 ②	19				22
	36W					9 ②	20				24
	40W					8 ②		10 ②			8 ①
	55W					5 ②		6 ②			6 ①

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries						
NiCd 4.0 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•	•	•				
	Side by side	3	Accu-NiCd 3B	89895976	•	•	•				
	Stick	4	Accu-NiCd 4A	89895961				•	•		
	Side by side	4	Accu-NiCd 4B	89895977				•	•		
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978				•	•		
	Stick	5	Accu-NiCd 5A	89895973					•	•	•
	Stick + Stick	3 + 2	Accu-NiCd 5B	89895962					•	•	•
	Stick + Stick	3 + 3	Accu-NiCd 6A	89895963							•

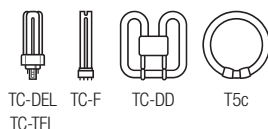
Note: For more lamp combinations for 1 and 3 h see separate data sheet.

① For 2-hour operation only.

② Used only in a permanent circuit because mercury migration may occur during emergency operation.

③ Lamp restrictions apply, see data sheet.

④ For extended application of the lamp please see E 005en_EM BASIC_Extended Application_V1.pdf at www.tridonic.com.

**EM MINI BASIC, 220 – 240 V**

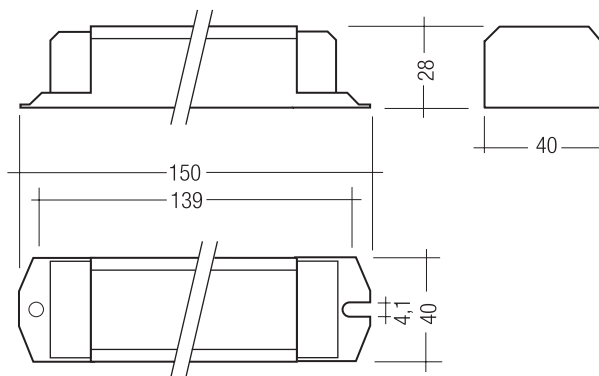
BASIC version

Product description

- Emergency lighting supply unit for manual testing
- For compact fluorescent lamps
- Small dimensions (28 x 40 mm cross-section, 150 mm length)

Properties

- 3 h rated duration
- Compatible with all electronic ballasts (dimmable and non-dimmable)
- Can also be used in combination with conventional magnetic ballasts
- 5-pole technology: 4-pole lamp changeover and delayed power switching for the ballast
- Switchover relay with high-current contacts
- IDC (insulation displacement connection)
- Green charge status display LED
- Checking the emergency lighting function by interrupting the unswitched phase
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery

**Batteries**

- High-temperature cells
- NiCd or NiMH batteries
- D or Cs cells
- Blade terminals for simple connection

→ For product data sheet go to www.tridonic.com, or available on request



Product matrix, page 306

Standards, page 306

Batteries, page 369 and page 372

For wiring diagrams and installation examples see data sheet

Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current	0.03 A
Rated power	3.9 W
Battery charging time	24 h
Discharge current	1.1 A
Charge current	210 mA
Leakage current (PE)	0.5 mA
Ambient temperature t_a	0 ... +50 °C
Max. casing temperature t_c	70 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Min. lamp starting temperature (emergency operation)	0 °C
Type of protection	IP20
Protection class	I

Ordering data

Number of cells	Type	Article number
3	EM 33A MINI BASIC	89899951
4	EM 34A MINI BASIC	89899950
4	EM 34C MINI BASIC	89899952

Packaging: 25 pieces/carton, 1000 pieces/pallet

ACCES-
SERIES

Status indication charging current

Product description

- A green LED indicates that charging current is flowing into the battery



Ordering data

Type	Article number
LED EM green	89899605
LED EM green, ultra high brightness	89899756

Packaging: 25 pieces/bag, 200 pieces/carton

EM MINI BASIC for linear lamps, 3 h

	3 h	3 cells	4 cells	
Type		EM 33A MINI BASIC	EM 34A MINI BASIC	EM 34C MINI BASIC
Article no.		89899951	89899950	89899952
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time		
TC-DD	28W	9		
	38W			6.5
TC-F	36W		11.5	
TC-DEL	18W		16.5	
	26W		13	
TC-TEL	18W		16.5	
	26W		13	
T5c	22W		16	

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries		
NiCd 4.0Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•		
	Side by side	3	Accu-NiCd 3B	89895976	•		
	Stick	4	Accu-NiCd 4A	89895961		•	•
	Side by side	4	Accu-NiCd 4B	89895977		•	•
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978		•	•
NiMH 4.0Ah C-cells ①	Stick	3	Accu-NiMH 4Ah C 3A	89899854	•		
	Stick	4	Accu-NiMH 4Ah C 4A	89899850		•	•

① Maximum battery housing temperature 45 °C.



EM T5 BASIC, 220 – 240 V

BASIC version

Product description

- Emergency lighting supply unit for manual testing
- For T5 fluorescent lamps
- Low-profile casing (21 x 30 mm cross-section)

Properties

- 1 or 3 h rated duration
- Selectable operating time (jumper)
- Compatible with all electronic ballasts (dimmable and non-dimmable)
- 5-pole technology: 4-pole lamp changeover and delayed power switching for the ballast
- High-frequency ac operation of the lamp
- Gentle on the lamp thanks to permanent cathode heating in emergency mode
- „Rest mode“ function
- Green charge status display LED
- Electronically controlled battery charging
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery

Batteries

- High-temperature cells
- NiCd or NiMH batteries
- D or Cs cells
- Blade terminals for simple connection

→ For product data sheet go to www.tridonic.com, or available on request

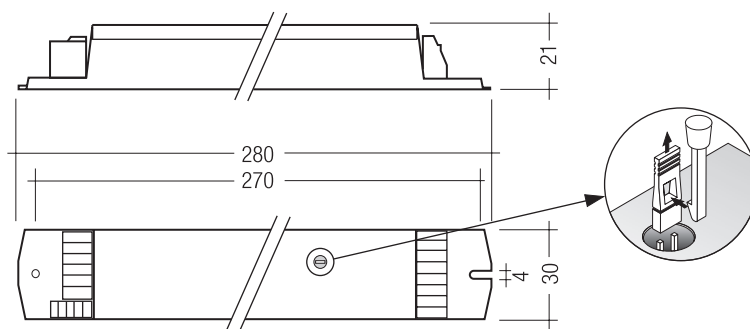


Product matrix, page 306

Standards, page 306

Batteries, page 369 and page 372

For wiring diagrams and installation examples see data sheet



Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current 1 h	25 mA
Mains current 3 h	35 mA
Rated power	< 7 W
Overvoltage protection	320 V (for 1 h)
Maximum operating voltage (U-OUT of the ECG)	460 V
Battery charging time	24 h
Discharge current	1.1 A
Charge current 1 h	100 mA
Charge current 3 h	200 mA
Leakage current (PE)	< 0.5 mA
Ambient temperature t_a	5 ... +60 °C
Max. casing temperature t_c	70 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Min. lamp starting temperature (emergency)	5 °C
Type of protection	IP20
Protection class	I

Ordering data

Number of cells	Type ^①	Article number
Rated operating time 3 / 1 h		
4	EM 14/24-4 T5 BASIC	89899822
5	EM 21/28/49-5 T5 BASIC	89899823
5	EM 39-5 T5 BASIC	89899824
6	EM 35-6 T5 BASIC	89899825
6	EM 54/80-6 T5 BASIC	89899826

Packaging: 25 pieces/carton, 850 pieces/pallet

^① Remove short-circuit connector and select the correct battery to switch to 1-hour operation

ACCES-
SORIES

Test switch EM2

Product description

- For connection to the emergency lighting unit
- For checking the device function



Ordering data

Type	Article number
Test switch EM 2	89805277

Packaging: 25 pieces/bag, 200 pieces/carton

ACCES-
SORIES

Status indication charging current

Product description

- A green LED indicates that charging current is flowing into the battery



Ordering data

Type	Article number
LED EM green	89899605
LED EM green, ultra high brightness	89899756

Packaging: 25 pieces/bag, 200 pieces/carton

EM T5 BASIC for T5 fluorescent lamps, 3 or 1 h

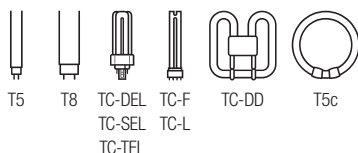
	3 oder 1 h	4 cells	5 cells		6 cells	
Type		EM 14/24-4 T5 BASIC	EM 21/28/49-5 T5 BASIC	EM 39-5 T5 BASIC	EM 35-6 T5 BASIC	EM 54/80-6 T5 BASIC
Article no.		89899822	89899823	89899824	89899825	89899826
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time				
T5 FH	14 W	21				
	21 W		12			
	28 W		12			
	35 W				13	
T5 FQ	24 W	14				
	39 W			7		
	49 W		7			
	54 W					6.5
	80 W					4.5

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries				
NiCd 1.5 Ah Cs-cells	Stick	4	Accu-NiCd C 4A	89899692	•				
	Side by side	4	Accu-NiCd C 4B	89899693	•				
	Stick + Stick	2 + 2	Accu-NiCd C 4C	89899694	•				
	Stick	5	Accu-NiCd C 5A	89899695		•	•		
	Side by side	5	Accu-NiCd C 5B	89899696		•	•		
	Stick + Stick	3 + 2	Accu-NiCd C 5C	89899697		•	•		
	Stick	6	Accu-NiCd C 6A	89899698				•	•
	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699				•	•
NiCd 4.0 Ah D-cells	Stick	4	Accu-NiCd 4A	89895961	•				
	Side by side	4	Accu-NiCd 4B	89895977	•				
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978	•				
	Stick	5	Accu-NiCd 5A	89895973		•	•		
	Stick + Stick	3 + 2	Accu-NiCd 5B	89895962		•	•		
	Stick + Stick	3 + 3	Accu-NiCd 6A	89895963				•	•
NiMH 2.0 Ah Cs-cells	Stick	4	Accu-NiMH C 4A	89899700	•				
	Stick	5	Accu-NiMH C 5A	89899703		•	•		
	Stick	6	Accu-NiMH C 6A	89899706				•	•
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707				•	•
NiMH 4.0 Ah Cs-cells ①	Stick	4	Accu-NiMH 4 Ah C 4A	89899850	•				
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851		•	•		
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852				•	•
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853				•	•

For 3-hour operation: 4.0 Ah D-cells NiCd or 4.0 Ah Cs-cells NiMH.

For 1-hour operation: 1.5 Ah Cs-cells NiCd or 2.0 Ah Cs-cells NiMH.

① Maximum battery housing temperature 45 °C.



EM BASIC Ip, 230 – 240 V BASIC version

Product description

- Emergency lighting supply unit for manual testing
- For linear and compact fluorescent lamps
- Low-profile casing (21 x 30 mm cross-section)

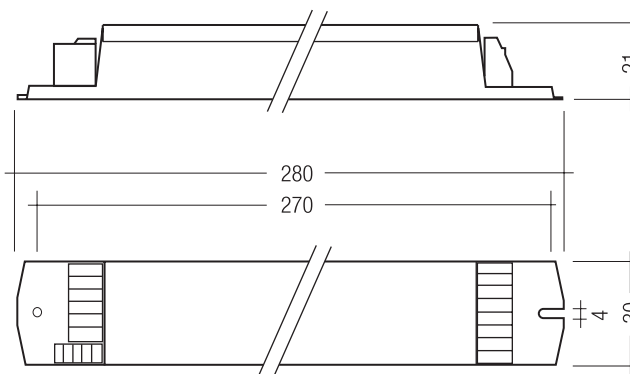
Properties

- 1 or 3 h rated duration
- Compatible with all electronic ballasts (dimmable and non-dimmable)
- 5-pole technology: 4-pole lamp changeover and delayed power switching for the ballast
- High-frequency ac operation of the lamp
- Hot restart in emergency mode
- Gentle on the lamp thanks to permanent cathode heating in emergency mode
- Boost start for rapid heating of the lamp, more light in the startup phase and optimum lamp life
- Maximum ballast lumen factors (BLF) for all lamps
- Green charge status display LED
- Electronic multi-level charge system
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery

Batteries

- High-temperature cells
- NiCd or NiMH batteries
- D or Cs cells
- Blade terminals for simple connection

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current	60 mA
Rated power	< 10 W
Overvoltage protection	320 V (for 1 h)
Maximum operating voltage (U-OUT of the ECG)	460 V
Battery charging time 3 / 1 h	15 / 10 h
Discharge current	1.1 A
Leakage current (PE)	0.5 mA
Ambient temperature ta	-5 ... +60 °C
Max. casing temperature tc	70 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Min. lamp starting temperature (emergency operation)	-5 °C
Type of protection	IP20
Protection class	I

Ordering data

Number of cells	Type	Article number
Rated operating time 3 h, Standard BLF		
4	EM 34 BASIC Ip	89899761
5	EM 35 BASIC Ip	89899762
6	EM 36 BASIC Ip	89899763
Rated operating time 1 h, Standard BLF		
4	EM 14 BASIC Ip	89899764
5	EM 15 BASIC Ip	89899765
6	EM 16 BASIC Ip	89899766

Packaging: 25 pieces/carton, 475 pieces/pallet



Product matrix, page 306

Standards, page 306

Batteries, page 369 and page 372

For wiring diagrams and installation examples see data sheet

Specific technical data

Type	Battery charge time	Charge current		
		Charge current NiMH 2.0 Ah, Ignition charge	Rapid charge	Charge current NiMH 2.0 Ah, Trickle charge
Rated operating time 3 h, Standard BLF				
EM 34 BASIC Ip	15 h	330 mA	330 mA	130 mA
EM 35 BASIC Ip	15 h	330 mA	330 mA	130 mA
EM 36 BASIC Ip	15 h	330 mA	330 mA	130 mA
Rated operating time 1 h, Standard BLF				
EM 14 BASIC Ip	10 h	130 mA	210 mA	50 mA
EM 15 BASIC Ip	10 h	130 mA	210 mA	50 mA
EM 16 BASIC Ip	10 h	130 mA	210 mA	50 mA

ACCESSORIES

Test switch EM2

Product description

- For connection to the emergency lighting unit
- For checking the device function



Ordering data

Type	Article number
Test switch EM 2	89805277

Packaging: 25 pieces/bag, 200 pieces/carton

Product description

- A green LED indicates that charging current is flowing into the battery



Ordering data

Type	Article number
LED EM green	89899605
LED EM green, ultra high brightness	89899756

Packaging: 25 pieces/bag, 200 pieces/carton

EM BASIC Ip for linear lamps, 3 or 1 h

	Duration	3 h			1 h		
	Cells	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells
	Type	EM 34 BASIC Ip	EM 35 BASIC Ip	EM 36 BASIC Ip	EM 14 BASIC Ip	EM 15 BASIC Ip	EM 16 BASIC Ip
	Article no.	89899761	89899762	89899763	89899764	89899765	89899766
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time					
T5	4 W	38			38		
	6 W	43			43		
	8 W	40			40		
	13 W	27			27		
T5 FH	14 W	24			24		
	21 W		16			16	
	28 W			14			14
	35 W			12			12
T5 FQ	24 W	13			13		
	39 W			8			8
	49 W			6			6
	54 W			6			6
	80 W			5			5
T8	15 W	20			20		
	18 W	16			16		
	30 W	12			12		
	36 W	10			10		
	38 W		10			10	
	58 W		8			8	
	70 W			6			6

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries			
NiCd 1.5 Ah Cs-cells	Stick	4	Accu-NiCd C 4A	89899692			•	
	Side by side	4	Accu-NiCd C 4B	89899693			•	
	Stick + Stick	2 + 2	Accu-NiCd C 4C	89899694			•	
	Stick	5	Accu-NiCd C 5A	89899695				•
	Side by side	5	Accu-NiCd C 5B	89899696				•
	Stick + Stick	3 + 2	Accu-NiCd C 5C	89899697				•
	Stick	6	Accu-NiCd C 6A	89899698				•
	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699				•
NiCd 4.0 Ah D-cells	Stick	4	Accu-NiCd 4A	89895961	•			
	Side by side	4	Accu-NiCd 4B	89895977	•			
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978	•			
	Stick	5	Accu-NiCd 5A	89895973		•		
	Stick + Stick	3 + 2	Accu-NiCd 5B	89895962		•		
	Stick + Stick	3 + 3	Accu-NiCd 6A	89895963			•	
NiMH 2.0 Ah Cs-cells	Stick	4	Accu-NiMH C 4A	89899700			•	
	Stick	5	Accu-NiMH C 5A	89899703				•
	Stick	6	Accu-NiMH C 6A	89899706				•
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707				•
NiMH 4.0 Ah Cs-cells ①	Stick	4	Accu-NiMH 4 Ah C 4A	89899850	•			
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851		•		
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852			•	
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853			•	

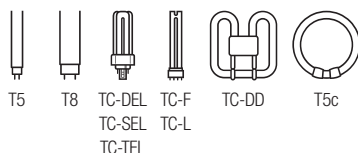
① Maximum battery housing temperature 50 °C.

EM BASIC Ip for compact lamps, 3 or 1 h

	Duration	3 h			1 h		
	Cells	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells
	Type	EM 34 BASIC Ip	EM 35 BASIC Ip	EM 36 BASIC Ip	EM 14 BASIC Ip	EM 15 BASIC Ip	EM 16 BASIC Ip
	Article no.	89899761	89899762	89899763	89899764	89899765	89899766
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time					
TC-DD	10W	37			37		
	16W	25			25		
	21 W	19			19		
	28W	14			14		
	38W			10			10
	55W			4			4
TC-SEL	5W	40			40		
	7W	39			39		
	9W	39			39		
	11 W	34			34		
TC-DEL	10W	31			31		
	13W	26			26		
	18W	21			21		
	26W	14			14		
TC-TEL	13W	26			26		
	18W	21			21		
	26W	14			14		
	32W		11			11	
	42W			7			7
	57W			5			5
	T5c	22W	14			14	
40W				7			7
55W				7			7
TC-F	18W	18			18		
	24W		12			12	
	36W		11			11	
TC-L	18W	18			18		
	24W		12			12	
	36W		11			11	
	40W		5			5	
	55W			6			6

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries			
NiCd 1.5 Ah Cs-cells	Stick	4	Accu-NiCd C 4A	89899692			•	
	Side by side	4	Accu-NiCd C 4B	89899693			•	
	Stick + Stick	2 + 2	Accu-NiCd C 4C	89899694			•	
	Stick	5	Accu-NiCd C 5A	89899695				•
	Side by side	5	Accu-NiCd C 5B	89899696				•
	Stick + Stick	3 + 2	Accu-NiCd C 5C	89899697				•
	Stick	6	Accu-NiCd C 6A	89899698				•
	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699				•
NiCd 4.0 Ah D-cells	Stick	4	Accu-NiCd 4A	89895961	•			
	Side by side	4	Accu-NiCd 4B	89895977	•			
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978	•			
	Stick	5	Accu-NiCd 5A	89895973		•		
	Stick + Stick	3 + 2	Accu-NiCd 5B	89895962		•		
	Stick + Stick	3 + 3	Accu-NiCd 6A	89895963			•	
NiMH 2.0 Ah Cs-cells	Stick	4	Accu-NiMH C 4A	89899700			•	
	Stick	5	Accu-NiMH C 5A	89899703				•
	Stick	6	Accu-NiMH C 6A	89899706				•
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707				•
NiMH 4.0 Ah Cs-cells ①	Stick	4	Accu-NiMH 4 Ah C 4A	89899850	•			
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851		•		
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852			•	
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853			•	

① Maximum battery housing temperature 50 °C.



EM SELFTEST, 220 – 240 V SELFTEST version

Product description

- Emergency lighting supply unit with self-test function
- For linear and compact fluorescent lamps
- Low-profile casing (21 x 30 mm cross-section)

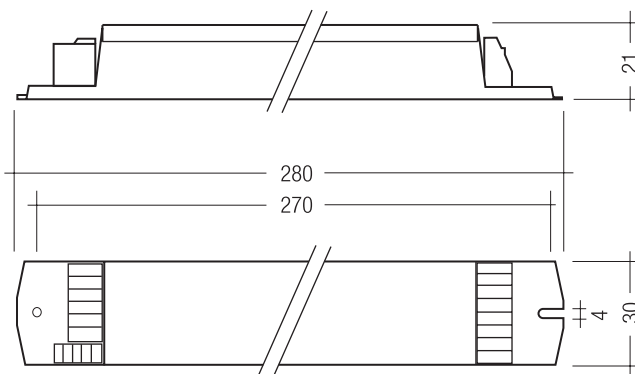
Properties

- Self-test as per IEC 62034
- 1 or 3 h rated duration
- Compatible with all electronic ballasts (dimmable and non-dimmable)
- 5-pole technology: 4-pole lamp changeover and delayed power switching for the ballast
- High-frequency ac operation of the lamp
- Hot restart in emergency mode
- Gentle on the lamp thanks to permanent cathode heating in emergency mode
- Boost start for rapid heating of the lamp, more light in the startup phase and optimum lamp life
- Standard and high ballast lumen factor for 1-hour types
- Electronic multi-level charge system
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery
- „Rest mode“ function
- Simple set-up
- Automatic function and service life test at a risk-free time
- Two-colour status display LED
- Self-test:
 - Status of the battery
 - Status of the lamp
 - Charge condition
 - Function test
 - Service life test

Batteries

- High-temperature cells
- NiCd or NiMH batteries
- D or Cs cells
- Blade terminals for simple connection

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current	60 mA
Rated power	< 10 W
Overvoltage protection	320 V (for 1 h)
Maximum operating voltage (U-OUT of the ECG)	460 V
Battery charging time 3 / 1 h	15 / 10 h
Discharge current, Standard BLF / High Output BLF	1.1 / 2.2 A
Leakage current (PE)	0.5 mA
Ambient temperature t_a	-5 ... +60 °C
Max. casing temperature t_c	70 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Min. lamp starting temperature (emergency operation)	-5 °C
Type of protection	IP20
Protection class	I

Ordering data

Number of cells	Type	Article number
Rated operating time 3 h, Standard BLF		
4	EM 34 ST	89899680
5	EM 35 ST	89899681
6	EM 36 ST	89899682
Rated operating time 1 h, Standard BLF		
4	EM 14 ST	89899683
5	EM 15 ST	89899684
6	EM 16 ST	89899685

Packaging: 25 pieces/carton, 475 pieces/pallet



Product matrix, page 306

Standards, page 306

Batteries, page 369 and page 372

For wiring diagrams and installation examples see data sheet

Ordering data

Number of cells	Type	Article number
Rated operating time 1 h, High Output BLF		
4	EM 14 HO ST	89899686
5	EM 15 HO ST	89899687
6	EM 16 HO ST	89899688

Packaging: 25 pieces/carton, 475 pieces/pallet

Specific technical data

Type	Battery charge time	Charge current		
		Charge current NiMH 2.0 Ah, Ignition charge	Rapid charge	Charge current NiMH 2.0 Ah, Trickle charge
Rated operating time 3 h, Standard BLF				
EM 34 ST	15 h	330 mA	330 mA	130 mA
EM 35 ST	15 h	330 mA	330 mA	130 mA
EM 36 ST	15 h	330 mA	330 mA	130 mA
Rated operating time 1 h, Standard BLF				
EM 14 ST	10 h	130 mA	210 mA	50 mA
EM 15 ST	10 h	130 mA	210 mA	50 mA
EM 16 ST	10 h	130 mA	210 mA	50 mA
Rated operating time 1 h, High Output BLF				
EM 14 HO ST	15 h	330 mA	330 mA	130 mA
EM 15 HO ST	15 h	330 mA	330 mA	130 mA
EM 16 HO ST	15 h	330 mA	330 mA	130 mA

ACCESS-
ORIES

Test switch EM2

Product description

- For connection to the emergency lighting unit
- For checking the device function



Ordering data

Type	Article number
Test switch EM 2	89805277

Packaging: 25 pieces/bag, 200 pieces/carton

Product description

- Two-colour status display LED
- Green: system OK, red: fault



Ordering data

Type	Article number
LED EM bi-colour	89899720
LED EM bi-colour, high brightness	89899753

Packaging: 25 pieces/bag, 200 pieces/carton

EM SELFTEST for linear lamps, 3 or 1 h

	Duration	3 h			Standard 1 h			High Output 1 h		
	Cells	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells
	Type	EM 34 ST	EM 35 ST	EM 36 ST	EM 14 ST	EM 15 ST	EM 16 ST	EM 14 HO ST	EM 15 HO ST	EM 16 HO ST
	Article no.	89899680	89899681	89899682	89899683	89899684	89899685	89899686	89899687	89899688
Lamp type	Wattage BLF in emergency lighting mode in % for rated operating time									
T5	4 W	38			38			70		
	6 W	43			43			73		
	8 W	40			40			68		
	13 W	27			27			52		
T5 FH	14 W	24			24			47		
	21 W		16			16			44	
	28 W			14			14			42
	35 W			12			12			36
T5 FQ	24 W	13			13			30		
	39 W			8			8			31
	49 W			6			6			22
	54 W			6			6			23
	80 W			5			5			15
T8	15 W	20			20			36		
	18 W	16			16			33		
	30 W	12			12			27		
	36 W	10			10			23		
	38 W		10			10				
	58 W		8			8			18	
	70 W			6			6			

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries						
NiCd 1.5 Ah Cs-cells	Stick	4	Accu-NiCd C4A	89899692				•			
	Side by side	4	Accu-NiCd C4B	89899693				•			
	Stick + Stick	2 + 2	Accu-NiCd C4C	89899694				•			
	Stick	5	Accu-NiCd C5A	89899695					•		
	Side by side	5	Accu-NiCd C5B	89899696					•		
	Stick + Stick	3 + 2	Accu-NiCd C5C	89899697					•		
	Stick	6	Accu-NiCd C6A	89899698						•	
	Stick + Stick	3 + 3	Accu-NiCd C6C	89899699						•	
NiCd 4.0 Ah D-cells	Stick	4	Accu-NiCd 4A	89895961	•					•	
	Side by side	4	Accu-NiCd 4B	89895977	•					•	
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978	•					•	
	Stick	5	Accu-NiCd 5A	89895973		•					•
	Stick + Stick	3 + 2	Accu-NiCd 5B	89895962		•					•
	Stick + Stick	3 + 3	Accu-NiCd 6A	89895963			•				•
NiMH 2.0 Ah Cs-cells	Stick	4	Accu-NiMH C4A	89899700				•			
	Stick	5	Accu-NiMH C5A	89899703					•		
	Stick	6	Accu-NiMH C6A	89899706						•	
	Stick + Stick	3 + 3	Accu-NiMH C6C	89899707						•	
NiMH 4.0 Ah Cs-cells ①	Stick	4	Accu-NiMH 4 Ah C4A	89899850	•					•	
	Stick	5	Accu-NiMH 4 Ah C5A	89899851		•					•
	Stick	6	Accu-NiMH 4 Ah C6A	89899852			•				•
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C6C	89899853			•				•

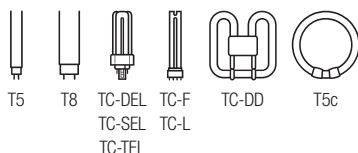
① Maximum battery housing temperature 50 °C.

EM SELFTEST for compact lamps, 3 or 1 h

	Duration	3 h			Standard 1 h			High Output 1 h		
		4 cells	5 cells	6 cells	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells
	Type	EM 34 ST	EM 35 ST	EM 36 ST	EM 14 ST	EM 15 ST	EM 16 ST	EM 14 HO ST	EM 15 HO ST	EM 16 HO ST
	Article no.	89899680	89899681	89899682	89899683	89899684	89899685	89899686	89899687	89899688
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time								
TC-DD	10 W	37			37					
	16 W	25			25					
	21 W	19			19					
	28 W	14			14					
	38 W			10			10			
	55 W			4			4			
TC-SEL	5 W	40			40			53		
	7 W	39			39			53		
	9 W	39			39			53		
	11 W	34			34			53		
TC-DEL	10 W	31			31			51		
	13 W	26			26			47		
	18 W	21			21			34		
	26 W	14			14			27		
TC-TEL	13 W	26			26			47		
	18 W	21			21			36		
	26 W	14			14			25		
	32 W		11			11			28	
	42 W			7			7		24	
T5c	57 W			5			5			19
	22 W	14			14			30		
	40 W			7			7			27
TC-F	55 W			7			7			23
	18 W	18			18			32		
	24 W		12			12			33	
TC-L	36 W		11			11			26	
	18 W	18			18			32		
	24 W		12			12			33	
	36 W		11			11			26	
	40 W		5			5			24	
	55 W			6			6			21

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries					
NiCd 1.5 Ah Cs-cells	Stick	4	Accu-NiCd C 4A	89899692				•		
	Side by side	4	Accu-NiCd C 4B	89899693				•		
	Stick + Stick	2 + 2	Accu-NiCd C 4C	89899694				•		
	Stick	5	Accu-NiCd C 5A	89899695				•		
	Side by side	5	Accu-NiCd C 5B	89899696				•		
	Stick + Stick	3 + 2	Accu-NiCd C 5C	89899697				•		
	Stick	6	Accu-NiCd C 6A	89899698					•	
	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699					•	
NiCd 4.0 Ah D-cells	Stick	4	Accu-NiCd 4A	89895961	•				•	
	Side by side	4	Accu-NiCd 4B	89895977	•				•	
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978	•				•	
	Stick	5	Accu-NiCd 5A	89895973		•				•
	Stick + Stick	3 + 2	Accu-NiCd 5B	89895962		•				•
	Stick + Stick	3 + 3	Accu-NiCd 6A	89895963			•			•
NiMH 2.0 Ah Cs-cells	Stick	4	Accu-NiMH C 4A	89899700				•		
	Stick	5	Accu-NiMH C 5A	89899703				•		
	Stick	6	Accu-NiMH C 6A	89899706					•	
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707					•	
NiMH 4.0 Ah Cs-cells ①	Stick	4	Accu-NiMH 4 Ah C 4A	89899850	•				•	
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851		•				•
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852			•			•
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853			•			•

① Maximum battery housing temperature 50 °C.



NEW

EM PRO EZ-3, 220 – 240 V PRO version

Product description

- Emergency lighting supply unit with DALI interface and automatic test function
- For linear and compact fluorescent lamps
- Low-profile casing (21 x 30 mm cross-section)

Properties

- DALI interface for testing and feedback
- 1 or 3 h rated duration
- Compatible with all electronic ballasts (dimmable and non-dimmable)
- 5-pole technology: 4-pole lamp changeover and delayed power switching for the ballast
- High-frequency ac operation of the lamp
- Gentle on the lamp thanks to permanent cathode heating in emergency mode
- Boost start for rapid heating of the lamp, more light in the startup phase and optimum lamp life
- Standard and high ballast lumen factor for 1-hour types
- Electronic multi-level charge system
- „Rest mode“ function
- Addressing function, patented („EZ easy addressing“)
- EZ addressing tool can be supplied
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery
- Two-colour status display LED
- Maximum ballast lumen factors (BLF) for all lamps

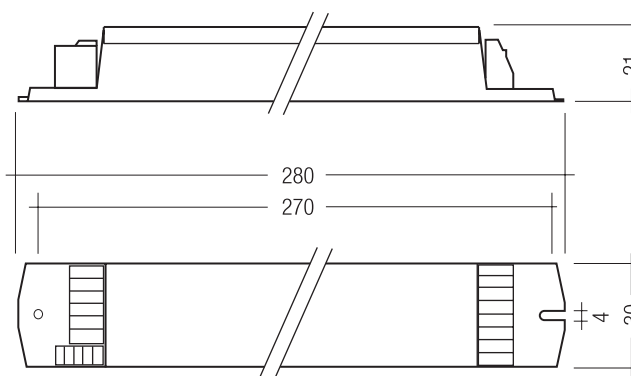
Tests:

- Status of the battery
- Status of the lamp
- Charge status

Batteries

- High-temperature cells
- NiCd or NiMH batteries
- D or Cs cells
- Blade terminals for simple connection

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current	60 mA
Rated power	< 10 W
Overvoltage protection	320 V (for 1 h)
Maximum operating voltage (U-OUT of the ECG)	460 V
Battery charging time 3 / 1 h	15 / 10 h
Discharge current, Standard BLF / High Output BLF	1.1 / 2.2 A
Leakage current (PE)	0.5 mA
Ambient temperature t_a	-5 ... +60 °C
Max. casing temperature t_c	70 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Min. lamp starting temperature (emergency operation)	-5 °C
Type of protection	IP20
Protection class	I

Ordering data

Number of cells	Type	Article number
Rated operating time 3 h, Standard BLF		
4	EM 34 PRO EZ-3	89800022
5	EM 35 PRO EZ-3	89800023
6	EM 36 PRO EZ-3	89800024
Rated operating time 1 h, Standard BLF		
4	EM 14 PRO EZ-3	89800025
5	EM 15 PRO EZ-3	89800026
6	EM 16 PRO EZ-3	89800027

Packaging: 25 pieces/carton, 475 pieces/pallet



Product matrix, page 306

Standards, page 306

Batteries, page 369 and page 372

For wiring diagrams and installation examples see data sheet

Ordering data

Number of cells	Type	Article number
Rated operating time 1 h, High Output BLF		
4	EM 14 HO PRO EZ-3	89800019
5	EM 15 HO PRO EZ-3	89800020
6	EM 16 HO PRO EZ-3	89800021

Packaging: 25 pieces/carton, 475 pieces/pallet

Specific technical data

Type	Battery charge time	Charge current		
		Charge current NiMH 2.0 Ah, Ignition charge	Rapid charge	Charge current NiMH 2.0 Ah, Trickle charge
Rated operating time 3 h, Standard BLF				
EM 34 PRO EZ-3	15 h	330 mA	330 mA	130 mA
EM 35 PRO EZ-3	15 h	330 mA	330 mA	130 mA
EM 36 PRO EZ-3	15 h	330 mA	330 mA	130 mA
Rated operating time 1 h, Standard BLF				
EM 14 PRO EZ-3	10 h	130 mA	210 mA	50 mA
EM 15 PRO EZ-3	10 h	130 mA	210 mA	50 mA
EM 16 PRO EZ-3	10 h	130 mA	210 mA	50 mA
Rated operating time 1 h, High Output BLF				
EM 14 HO PRO EZ-3	15 h	330 mA	330 mA	130 mA
EM 15 HO PRO EZ-3	15 h	330 mA	330 mA	130 mA
EM 16 HO PRO EZ-3	15 h	330 mA	330 mA	130 mA

ACCESSORIES

Test switch EM2

Product description

- For connection to the emergency lighting unit
- For checking the device function



Ordering data

Type	Article number
Test switch EM 2	89805277

Packaging: 25 pieces/bag, 200 pieces/carton

ACCES-
SORIES

Status indication system OK/fault

Product description

- Two-colour status display LED
- Green: system OK, red: fault



Ordering data

Type	Article number
LED EM bi-colour	89899720
LED EM bi-colour, high brightness	89899753

Packaging: 25 pieces/bag, 200 pieces/carton

ACCES-
SORIES

Addressing tool

Product description

- Provides simple addressing for the EM PRO units
- Uses the bi-colour LED for device identification



Ordering data

Type	Article number
EM PRO addressing tool	89899836

EM PRO EZ-3 for linear lamps, 3 or 1 h

	Duration	3 h			Standard 1 h			High Output 1 h		
	Cells	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells
	Type	EM 34 PRO EZ-3	EM 35 PRO EZ-3	EM 36 PRO EZ-3	EM 14 PRO EZ-3	EM 15 PRO EZ-3	EM 16 PRO EZ-3	EM 14 HO PRO EZ-3	EM 15 HO PRO EZ-3	EM 16 HO PRO EZ-3
	Article no.	89800022	89800023	89800024	89800025	89800026	89800027	89800019	89800020	89800021
Lamp type	Wattage BLF in emergency lighting mode in % for rated operating time									
T5	4 W	38			38			70		
	6 W	43			43			73		
	8 W	40			40			68		
	13 W	27			27			52		
T5 FH	14 W	24			24			47		
	21 W		16			16			44	
	28 W			14			14			42
	35 W			12			12			36
T5 FQ	24 W	13			13			30		
	39 W			8			8			31
	49 W			6			6			22
	54 W			6			6			23
	80 W			5			5			15
T8	15 W	20			20			36		
	18 W	16			16			33		
	30 W	12			12			27		
	36 W	10			10			23		
	38 W		10			10				
	58 W		8			8			18	
	70 W			6			6			

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries						
NiCd 1.5 Ah Cs-cells	Stick	4	Accu-NiCd C 4A	89899692				•			
	Side by side	4	Accu-NiCd C 4B	89899693				•			
	Stick + Stick	2 + 2	Accu-NiCd C 4C	89899694				•			
	Stick	5	Accu-NiCd C 5A	89899695					•		
	Side by side	5	Accu-NiCd C 5B	89899696					•		
	Stick + Stick	3 + 2	Accu-NiCd C 5C	89899697					•		
	Stick	6	Accu-NiCd C 6A	89899698						•	
	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699						•	
NiCd 4.0 Ah D-cells	Stick	4	Accu-NiCd 4A	89895961	•					•	
	Side by side	4	Accu-NiCd 4B	89895977	•					•	
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978	•					•	
	Stick	5	Accu-NiCd 5A	89895973		•					•
	Stick + Stick	3 + 2	Accu-NiCd 5B	89895962		•					•
	Stick + Stick	3 + 3	Accu-NiCd 6A	89895963			•				•
NiMH 2.0 Ah Cs-cells	Stick	4	Accu-NiMH C 4A	89899700				•			
	Stick	5	Accu-NiMH C 5A	89899703					•		
	Stick	6	Accu-NiMH C 6A	89899706						•	
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707						•	
NiMH 4.0 Ah Cs-cells ①	Stick	4	Accu-NiMH 4 Ah C 4A	89899850	•					•	
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851		•					•
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852			•				•
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853			•				•

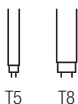
① Maximum battery housing temperature 50 °C.

EM PRO EZ-3 for compact lamps, 3 or 1 h

	Duration	3h			Standard 1 h			High Output 1 h		
	Cells	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells
	Type	EM 34 PRO EZ-3	EM 35 PRO EZ-3	EM 36 PRO EZ-3	EM 14 PRO EZ-3	EM 15 PRO EZ-3	EM 16 PRO EZ-3	EM 14 HO PRO EZ-3	EM 15 HO PRO EZ-3	EM 16 HO PRO EZ-3
	Article no.	89800022	89800023	89800024	89800025	89800026	89800027	89800019	89800020	89800021
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time								
TC-DD	10W	37			37					
	16W	25			25					
	21W	19			19					
	28W	14			14					
	38W			10			10			
	55W			4			4			
TC-SEL	5W	40			40			53		
	7W	39			39			53		
	9W	39			39			53		
	11W	34			34			53		
TC-DEL	10W	31			31			51		
	13W	26			26			47		
	18W	21			21			34		
	26W	14			14			27		
TC-TEL	13W	26			26			47		
	18W	21			21			36		
	26W	14			14			25		
	32W		11			11			28	
	42W			7			7		24	
	57W			5			5			19
T5c	22W	14			14			30		
	40W			7			7			27
	55W			7			7			23
TC-F	18W	18			18			32		
	24W		12			12			33	
	36W		11			11			26	
TC-L	18W	18			18			32		
	24W		12			12			33	
	36W		11			11			26	
	40W		5			5			24	
	55W			6			6			21

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries						
NiCd 1.5Ah Cs-cells	Stick	4	Accu-NiCd C 4A	89899692				•			
	Side by side	4	Accu-NiCd C 4B	89899693				•			
	Stick + Stick	2 + 2	Accu-NiCd C 4C	89899694				•			
	Stick	5	Accu-NiCd C 5A	89899695				•			
	Side by side	5	Accu-NiCd C 5B	89899696				•			
	Stick + Stick	3 + 2	Accu-NiCd C 5C	89899697				•			
	Stick	6	Accu-NiCd C 6A	89899698					•		
	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699					•		
NiCd 4.0Ah D-cells	Stick	4	Accu-NiCd 4A	89895961	•				•		
	Side by side	4	Accu-NiCd 4B	89895977	•				•		
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978	•				•		
	Stick	5	Accu-NiCd 5A	89895973		•				•	
	Stick + Stick	3 + 2	Accu-NiCd 5B	89895962		•				•	
	Stick + Stick	3 + 3	Accu-NiCd 6A	89895963			•				•
NiMH 2.0Ah Cs-cells	Stick	4	Accu-NiMH C 4A	89899700				•			
	Stick	5	Accu-NiMH C 5A	89899703				•			
	Stick	6	Accu-NiMH C 6A	89899706					•		
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707					•		
NiMH 4.0Ah Cs-cells ①	Stick	4	Accu-NiMH 4 Ah C 4A	89899850	•				•		
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851		•				•	
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852			•				•
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853			•				•

① Maximum battery housing temperature 50 °C.

**PC COMBO, 220 – 240 V**

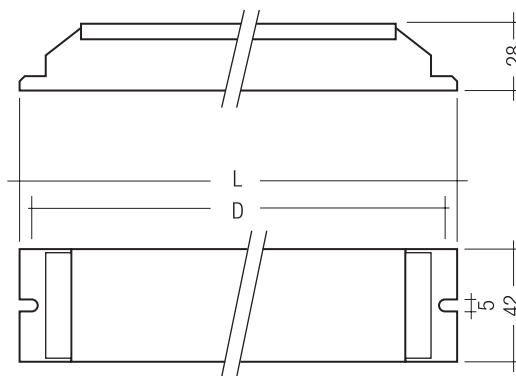
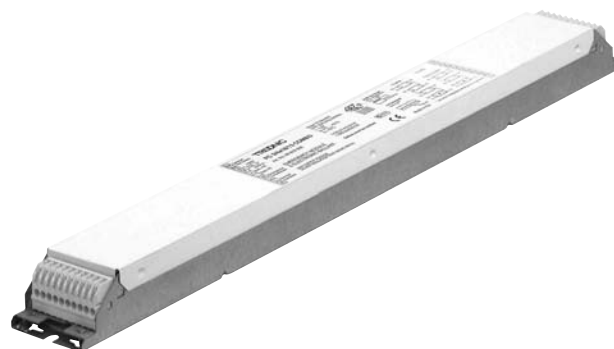
Linear fluorescent lamps

Product description

- Combination of electronic ballast and emergency lighting unit
- For T5 and T8 fluorescent lamps
- For manual testing of the emergency lighting function

Properties

- Lightweight one-part emergency lighting unit
- For 1, 2, 3 or 4-lamp luminaires
- Simple wiring
- No compatibility problems
- 1 or 3 h rated duration
- Hot lamp restart in normal operation
- IDC (insulation displacement connection)
- Green charge status display LED
- Checking the emergency lighting function by interrupting the unswitched phase
- Optional test switch
- Electronically controlled battery charging
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery

**Batteries**

- High-temperature cells
- NiCd or NiMH batteries
- D or Cs cells
- Blade terminals for simple connection

→ For product data sheet go to www.tridonic.com, or available on request



Product matrix, page 306

Standards, page 306

Batteries, page 369 and page 372

For wiring diagrams and installation examples see data sheet

Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains voltage changeover threshold	according to EN 60598-2-22
Min. lamp starting temperature (normal operation)	-15 °C
Min. lamp starting temperature (emergency operation)	0 °C
Ambient temperature t_a	0 ... +50 °C
tc point	70 °C
Operating frequency	> 30 kHz
Battery charging time	24 h
Charge current	210 mA
Discharge current 1 h	2.4 A
Discharge current 3 h	1.1 A
Type of protection	IP20
Protection class	I

Ordering data

Type	Article number
Rated operating time 3 h	
PC 1x36-33 COMBO	89805250
PC 2x36-33 COMBO	89805268
PC 1x58-34 COMBO	89805270
PC 2 x 58-34 COMBO	89805272
PC 3/4x18-33 COMBO	89818236
PC 3/4x14-33 T5 COMBO	89800002
PC 3/4x24-34 T5 COMBO	89899878
Rated operating time 1 h	
PC 3/4x14-13 T5 COMBO	89800003

Packaging: 25 pieces/carton, 700 pieces/pallet

Specific technical data

Lamp type	Lamp wattage	Type	Number of cells	Article number	Length L	Hole spacing D	Weight	Lamp wattage	Circuit power	Mains current	λ	Normal operation BLF	Emergency operation BLF	Emergency operation EBLF®	Rated duration
Rated operating time 3 h															
T8	1 x 36 W	PC 1x36-33 COMBO	3	89805250	424 mm	415 mm	0.44 kg	32 W	39 W	0.18 A	0.93	1	0.060	0.055	3 h
T8	2 x 36 W	PC 2x36-33 COMBO	3	89805268	424 mm	415 mm	0.46 kg	64 W	75 W	0.35 A	0.96	1	0.060	0.055	3 h
T8	1 x 58 W	PC 1x58-34 COMBO	4	89805270	424 mm	415 mm	0.44 kg	50 W	60 W	0.27 A	0.95	1	0.065	0.060	3 h
T8	2 x 58 W	PC 2 x 58-34 COMBO	4	89805272	424 mm	415 mm	0.46 kg	100 W	115 W	0.51 A	0.96	1	0.065	0.060	3 h
T8	3 x 18 W	PC 3/4x18-33 COMBO	3	89818236	424 mm	415 mm	0.45 kg	48 W	60 W	0.27 A	0.97	1	0.160	0.145	3 h
T8	4 x 18 W	PC 3/4x18-33 COMBO	3	89818236	424 mm	415 mm	0.45 kg	72 W	79 W	0.35 A	0.35	1	0.160	0.145	3 h
T5	3 x 14 W	PC 3/4x14-33 T5 COMBO	3	89800002	424 mm	415 mm	0.45 kg	42 W	52 W	0.23 A	0.97	1	0.170	0.160	3 h
T5	4 x 14 W	PC 3/4x14-33 T5 COMBO	3	89800002	424 mm	415 mm	0.45 kg	56 W	67 W	0.30 A	0.98	1	0.170	0.160	3 h
T5	3 x 24 W	PC 3/4x24-34 T5 COMBO	4	89899878	424 mm	415 mm						in preparation			
T5	4 x 24 W	PC 3/4x24-34 T5 COMBO	4	89899878	424 mm	415 mm						in preparation			
Rated operating time 1 h															
T5	3 x 14 W	PC 3/4x14-13 T5 COMBO	3	89800003	424 mm	415 mm	0.45 kg	42 W	52 W	0.23 A	0.97	1	0.280	0.250	1 h
T5	4 x 14 W	PC 3/4x14-13 T5 COMBO	3	89800003	424 mm	415 mm	0.45 kg	56 W	67 W	0.30 A	0.98	1	0.280	0.250	1 h

^① According to EN 61347-2-7: 2006

ACCES-
SORIES

Test switch EM2

Product description

- For connection to the emergency lighting unit
- For checking the device function



Ordering data

Type	Article number
Test switch EM 2	89805277

Packaging: 25 pieces/bag, 200 pieces/carton

Status indication charging current

Product description

- A green LED indicates that charging current is flowing into the battery



Ordering data

Type	Article number
LED EM green	89899605
LED EM green, ultra high brightness	89899756

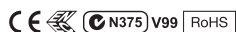
Packaging: 25 pieces/bag, 200 pieces/carton

PC COMBO for T5 and T8 fluorescent lamps, 3 or 1 h

	Duration	3 h						1 h	
		3 cells	3 cells	4 cells	4 cells	3 cells	3 cells	3 cells	3 cells
Type		PC 1x36-33 COMBO	PC 2x36-33 COMBO	PC 1x58-34 COMBO	PC 2x58-34 COMBO	PC 3/4x18-33 COMBO	PC 3/4x14-33 T5 COMBO	PC 3/4x18-13 COMBO	PC 3/4x14-13 T5 COMBO
Article no.		89805250	89805268	89805270	89805272	89818236	89800002	89818358	89800003
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time							
T8	18W					12		20	
	36W	8	8						
	58W			7	7				
T5	14W						16		34

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries							
NiCd 4.0Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•	•			•	•	•	•
	Stick	4	Accu-NiCd 4A	89895961			•	•				
NiMH 4.0Ah Cs-cells ①	Stick	3	Accu-NiMH 4Ah C 3A	89899854	•	•			•	•	•	•
	Stick	4	Accu-NiMH 4Ah C 4A	89899850			•	•				

① Maximum battery housing temperature 45 °C.



PC T5 COMBO Ip, 220 – 240 V

Linear fluorescent lamps

Product description

- Combination of electronic ballast and emergency lighting unit
- For T5 fluorescent lamps
- Low-profile casing (21 x 30 mm cross-section)
- For manual testing of the emergency lighting function

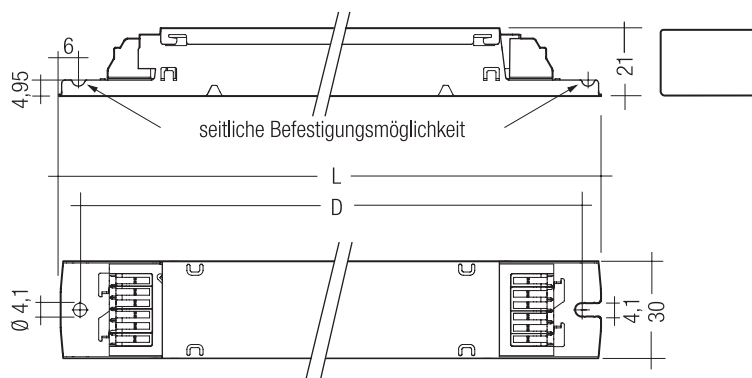
Properties

- Lightweight one-part emergency lighting unit
- Simple wiring
- No compatibility problems
- 1 or 3 h rated duration
- Selectable operating time (jumper)
- Hot lamp restart in normal operation
- Cathode heating in emergency mode
- AC operation of all lamps
- Automatic restart after relamping in normal operation
- Green charge status display LED
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optional test switch
- Checking the emergency lighting function by interrupting the unswitched phase
- IDC (insulation displacement connection)
- Electronically controlled battery charging
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery

Batteries

- High-temperature cells
- NiCd or NiMH batteries
- D or Cs cells
- Blade terminals for simple connection

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains voltage changeover threshold	according to EN 60598-2-22
Min. lamp starting temperature (normal operation)	-15 °C
Min. lamp starting temperature (emergency operation)	0 °C
tc point	70 °C
Ambient temperature ta	0 ... +55 °C
tc Point (PC 2x54-6 T5 COMBO Ip)	75 °C
Operating frequency (normal operating)	40 – 50 kHz
Operating frequency (emergency mode)	20 – 30 kHz
Overvoltage protection	320 V (for 1 h)
Battery charging time	24 h
Type of protection	IP20
Protection class	I

Ordering data

Type	Article number
Rated operating time 3 / 1 h	
PC 1x14-3 T5 Combo Ip	89899875
PC 2x14-3 T5 Combo Ip	89899876
PC 1x21/28-5 T5 Combo Ip	89899881
PC 2x21/28-5 T5 Combo Ip	89899882
PC 1x24-4 T5 Combo Ip	89899879
PC 2x24-4 T5 Combo Ip	89899880
PC 1x35-6 T5 Combo Ip	89899885
PC 2x35-6 T5 Combo Ip	89899886
PC 1x39-5 T5 Combo Ip	89899883
PC 2x39-5 T5 Combo Ip	89899884
PC 1x49-5 T5 Combo Ip	89899887

Packaging: 25 pieces/carton, 825 pieces/pallet



Product matrix, page 306

Standards, page 306

Batteries, page 369 and page 372

For wiring diagrams and installation examples see data sheet

Ordering data

Type	Article number
PC 2x49-5 T5 Combo Ip	89899888
PC 1x54-6 T5 Combo Ip	89899889
PC 2x54-6 T5 Combo Ip	89899890
PC 1x80-6 T5 Combo Ip	89899891

Packaging: 25 pieces/carton, 825 pieces/pallet

Specific technical data

Lamp type	Lamp wattage	Type	Number of cells	Article number	Length L	Hole spacing D	Weight	Lamp wattage	Circuit power	Mains current	λ	Normal operation BLF	Emergency operation BLF	Emergency operation EBLF [®]	Rated duration
Rated operating time 3 / 1 h															
T5	1 x 14 W	PC 1x14-3 T5 Combo Ip	3	89899875	425 mm	415 mm	0.43 kg	14.4 W	19.4 W	0.090 A	0.96	1	0.170	0.170	3 / 1 h
T5	2 x 14 W	PC 2x14-3 T5 Combo Ip	3	89899876	425 mm	415 mm	0.45 kg	28.8 W	35.0 W	0.160 A	0.95	1	0.170	0.170	3 / 1 h
T5	1 x 21 W	PC 1x21/28-5 T5 Combo Ip	5	89899881	425 mm	415 mm	0.43 kg	20.5 W	28.8 W	0.130 A	0.95	1	0.120	0.115	3 / 1 h
T5	1 x 28 W	PC 1x21/28-5 T5 Combo Ip	5	89899881	425 mm	415 mm	0.43 kg	27.9 W	35.9 W	0.160 A	0.97	1	0.120	0.095	3 / 1 h
T5	2 x 21 W	PC 2x21/28-5 T5 Combo Ip	5	89899882	425 mm	415 mm	0.45 kg	40.9 W	50.0 W	0.225 A	0.97	1	0.120	0.110	3 / 1 h
T5	2 x 28 W	PC 2x21/28-5 T5 Combo Ip	5	89899882	425 mm	415 mm	0.45 kg	55.8 W	66.5 W	0.295 A	0.98	1	0.120	0.095	3 / 1 h
T5	1 x 24 W	PC 1x24-4 T5 Combo Ip	4	89899879	425 mm	415 mm	0.43 kg	22.2 W	29.9 W	0.135 A	0.95	1	0.130	0.127	3 / 1 h
T5	2 x 24 W	PC 2x24-4 T5 Combo Ip	4	89899880	425 mm	415 mm	0.45 kg	43.0 W	54.7 W	0.245 A	0.97	1	0.130	0.127	3 / 1 h
T5	1 x 35 W	PC 1x35-6 T5 Combo Ip	6	89899885	425 mm	415 mm	0.43 kg	35.7 W	44.5 W	0.200 A	0.98	1	0.130	0.075	3 / 1 h
T5	2 x 35 W	PC 2x35-6 T5 Combo Ip	6	89899886	425 mm	415 mm	0.45 kg	71.4 W	84.4 W	0.370 A	0.98	1	0.130	0.075	3 / 1 h
T5	1 x 39 W	PC 1x39-5 T5 Combo Ip	5	89899883	425 mm	415 mm	0.43 kg	40.0 W	47.0 W	0.210 A	0.97	1	0.070	0.065	3 / 1 h
T5	2 x 39 W	PC 2x39-5 T5 Combo Ip	5	89899884	425 mm	415 mm	0.33 kg	77.0 W	88.0 W	0.390 A	0.98	1	0.070	0.065	3 / 1 h
T5	1 x 49 W	PC 1x49-5 T5 Combo Ip	5	89899887	425 mm	415 mm	0.43 kg	50.0 W	58.2 W	0.260 A	0.98	1	0.060	0.050	3 / 1 h
T5	2 x 49 W	PC 2x49-5 T5 Combo Ip	5	89899888	425 mm	415 mm	0.45 kg	101.4 W	112.0 W	0.500 A	0.99	1	0.070	0.050	3 / 1 h
T5	1 x 54 W	PC 1x54-6 T5 Combo Ip	6	89899889	425 mm	415 mm	0.43 kg	54.8 W	66.9 W	0.300 A	0.97	1	0.060	0.040	3 / 1 h
T5	2 x 54 W	PC 2x54-6 T5 Combo Ip	6	89899890	425 mm	415 mm	0.45 kg	105.0 W	120.3 W	0.530 A	0.99	1	0.060	0.040	3 / 1 h
T5	1 x 80 W	PC 1x80-6 T5 Combo Ip	6	89899891	425 mm	415 mm	0.43 kg	79.5 W	87.3 W	0.385 A	0.98	1	0.048	0.043	3 / 1 h

[®] According to EN 61347-2-7: 2006ACCES-
SERIES

Status indication charging current

Product description

- A green LED indicates that charging current is flowing into the battery



Ordering data

Type	Article number
LED EM green	89899605
LED EM green, ultra high brightness	89899756

Packaging: 25 pieces/bag, 200 pieces/carton

Product description

- For connection to the emergency lighting unit
- For checking the device function



Ordering data

Type	Article number
Test switch EM 3	89899956

Packaging: 25 pieces/bag, 200 pieces/carton

PC T5 COMBO Ip for T5 fluorescent lamps, 16 mm, 3 or 1 h

	Duration		3 or 1 h					
	Cells		3 cells	3 cells	5 cells	5 cells	4 cells	4 cells
	Type		PC 1x14–3 T5 COMBO Ip	PC 2x14–3 T5 COMBO Ip	PC 1x21/28–5 T5 COMBO Ip	PC 2x21/28–5 T5 COMBO Ip	PC 1x24–4 T5 COMBO Ip	PC 2x24–4 T5 COMBO Ip
	Article no.		89899875	89899876	89899881	89899882	89899879	89899880
Lamp type	Wattage		BLF in emergency lighting mode in % for rated operating time					
T5	14 W	17	17					
	21 W			12	12			
	24 W					13	13	
	28 W			12	12			
	35 W							
	39 W							
	49 W							
	54 W							
	80 W							

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries					
NiCd 1.5 Ah Cs-cells	Stick	3	Accu-NiCd C 3A	89899743	•	•				
	Stick	4	Accu-NiCd C 4A	89899692				•	•	
	Stick	5	Accu-NiCd C 5A	89899695			•	•		
	Stick	6	Accu-NiCd C 6A	89899698						
	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699						
NiCd 4.0 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•	•				
	Stick	4	Accu-NiCd 4A	89895961				•	•	
	Stick	5	Accu-NiCd 5A	89895973			•	•		
	Stick + Stick	3 + 2	Accu-NiCd 5B	89895962			•	•		
	Stick + Stick	3 + 3	Accu-NiCd 6A	89895963						
NiMH 2.0 Ah Cs-cells	Stick	3	Accu-NiMH C 3A	89899744	•	•				
	Stick	4	Accu-NiMH C 4A	89899700				•	•	
	Stick	5	Accu-NiMH C 5A	89899703			•	•		
	Stick	6	Accu-NiMH C 6A	89899706						
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707						
NiMH 4.0 Ah Cs-cells ①	Stick	3	Accu-NiMH 4 Ah C 3A	89899854	•	•				
	Stick	4	Accu-NiMH 4 Ah C 4A	89899850				•	•	
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851			•	•		
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852						
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853						

For 3-hour operation: 4.0 Ah D-cells NiCd or 4.0 Ah Cs-cells NiMH.

For 1-hour operation: 1.5 Ah Cs-cells NiCd or 2.0 Ah Cs-cells NiMH.

① Maximum battery housing temperature 45 °C.

3 or 1 h									
6 cells	6 cells	5 cells	5 cells	5 cells	5 cells	6 cells	6 cells	6 cells	
PC 1x35-6 T5 COMBO Ip	PC 2x35-6 T5 COMBO Ip	PC 1x39-5 T5 COMBO Ip	PC 2x39-5 T5 COMBO Ip	PC 1x49-5 T5 COMBO Ip	PC 2x49-5 T5 COMBO Ip	PC 1x54-6 T5 COMBO Ip	PC 2x54-6 T5 COMBO Ip	PC 1x80-6 T5 COMBO Ip	
89899885	89899886	89899883	89899884	89899887	89899888	89899889	89899890	89899891	

BLF in emergency lighting mode in % for rated operating time

	13	13							
			7	7					
					6	7			
							6	6	
									4,8

Assignable batteries

			•	•	•	•			
	•	•					•	•	•
	•	•					•	•	•
			•	•	•	•			
			•	•	•	•			
	•	•					•	•	•
			•	•	•	•			
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			•	•	•	•			
	•	•					•	•	•
	•	•					•	•	•

**PC TC-L COMBO, 220 – 240 V**

Compact fluorescent lamps

Product description

- Combination of electronic ballast and emergency lighting unit
- For TC-L compact fluorescent lamps
- For manual testing of the emergency lighting function

Properties

- Lightweight one-part emergency lighting unit
- Simple wiring
- No compatibility problems
- 3 h rated duration
- Hot lamp restart in normal operation
- Automatic restart after relamping in normal operation
- Green charge status display LED
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Checking the emergency lighting function by interrupting the unswitched phase
- Optional test switch
- Electronically controlled battery charging
- Deep discharge protection
- Short-circuit-proof battery connection
- Short-circuit protection for battery
- Polarity reversal protection for battery

Batteries

- High-temperature cells
- NiCd or NiMH batteries
- D or Cs cells
- Blade terminals for simple connection

→ For product data sheet go to www.tridonic.com, or available on request

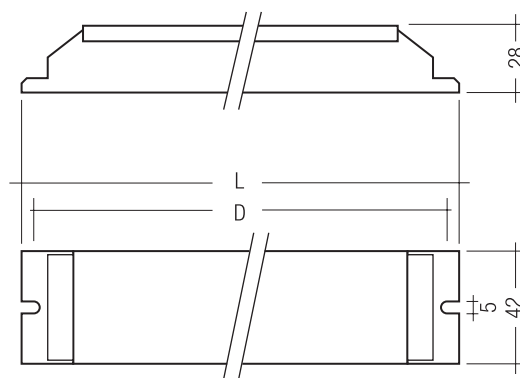


Product matrix, page 306

Standards, page 306

Batteries, page 369 and page 372

For wiring diagrams and installation examples see data sheet

**Technical data**

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains voltage changeover threshold	according to EN 60598-2-22
Leakage current (PE)	< 0.5 mA
Min. lamp starting temperature (normal operation)	-15 °C
Min. lamp starting temperature (emergency operation)	0 °C
Ambient temperature t_a	0 ... +50 °C
t_c point	70 °C
Operating frequency (normal operating)	40 – 50 kHz
Operating frequency (emergency mode)	20 – 30 kHz
Overvoltage protection	320 V (for 1 h)
Battery charging time	24 h
Charge current 3 h	210 mA
Discharge current 3 h	1.1 A
Type of protection	IP20
Protection class	I

Ordering data

Type	Article number
Rated operating time 3 h	
PC 1x36-33 TC-L COMBO	89899920
PC 2x36-33 TC-L COMBO	89899921
PC 1x40-34 TC-L COMBO	89899922
PC 2x40-34 TC-L COMBO	89899923
PC 1x55-35 TC-L COMBO	89899924
PC 2x55-35 TC-L COMBO	89899925

Packaging: 25 pieces/carton, 700 pieces/pallet

Specific technical data

Lamp type	Lamp wattage	Type	Number of cells	Article number	Length L	Hole spacing D	Weight	Lamp wattage	Circuit power	Mains current	λ	Normal operation BLF	Emergency operation BLF	Emergency operation EBLF [®]
Rated operating time 3 h														
TC-L	1 x 36 W	PC 1x36-33 TC-L COMBO	3	89899920	424 mm	415 mm	0.56 kg	32 W	38.5 W	0.17 A	0.97	1	0.051	0.040
TC-L	2 x 36 W	PC 2x36-33 TC-L COMBO	3	89899921	424 mm	415 mm	0.56 kg	32 W	74.0 W	0.33 A	0.98	1	0.051	0.040
TC-L	1 x 40 W	PC 1x40-34 TC-L COMBO	4	89899922	424 mm	415 mm	0.56 kg	40 W	46.0 W	0.20 A	0.97	1	0.061	0.040
TC-L	2 x 40 W	PC 2x40-34 TC-L COMBO	4	89899923	424 mm	415 mm	0.56 kg	40 W	90.6 W	0.40 A	0.98	1	0.061	0.040
TC-L	1 x 55 W	PC 1x55-35 TC-L COMBO	5	89899924	424 mm	415 mm	0.56 kg	55 W	65.0 W	0.29 A	0.97	1	0.085	0.075
TC-L	2 x 55 W	PC 2x55-35 TC-L COMBO	5	89899925	424 mm	415 mm	0.56 kg	55 W	127.0 W	0.56 A	0.98	1	0.085	0.075

[®]According to EN 61347-2-7: 2006

ACCESSORIES

Test switch EM2

Product description

- For connection to the emergency lighting unit
- For checking the device function



Ordering data

Type	Article number
Test switch EM 2	89805277

Packaging: 25 pieces/bag, 200 pieces/carton

Product description

- A green LED indicates that charging current is flowing into the battery



Ordering data

Type	Article number
LED EM green	89899605
LED EM green, ultra high brightness	89899756

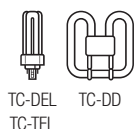
Packaging: 25 pieces/bag, 200 pieces/carton

PC TC-L COMBO for compact lamps, 3 h

	Duration	3 h					
		3 cells	3 cells	4 cells	4 cells	5 cells	5 cells
Type		PC 1x36-33 TC-L COMBO	PC 2x36-33 TC-L COMBO	PC 1x40-34 TC-L COMBO	PC 2x40-34 TC-L COMBO	PC 1x55-35 TC-L COMBO	PC 2x55-35 TC-L COMBO
Article no.		89899920	89899921	89899922	89899923	89899924	89899925
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time					
TC-L	36W	5.1	5.1				
	40W			6.1	6.1		
	55W					8.5	8.5

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries				
NiCd 4.0Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•	•			
	Stick	4	Accu-NiCd 4A	89895961			•	•	
	Stick	5	Accu-NiCd 5A	89895973				•	•
	Stick + Stick	3 + 2	Accu-NiCd 5B	89895962				•	•
NiMH 4.0Ah Cs-cells ①	Stick	3	Accu-NiMH 4Ah C 3A	89899854	•	•			
	Stick	4	Accu-NiMH 4Ah C 4A	89899850			•	•	
	Stick	5	Accu-NiMH 4Ah C 5A	89899851				•	•

① Maximum battery housing temperature 45 °C.



NEW

PC CFL COMBO, 220 – 240 V

Compact fluorescent lamps

Product description

- Combination of electronic ballast and emergency lighting unit
- For compact fluorescent lamps
- For manual testing of the emergency lighting function

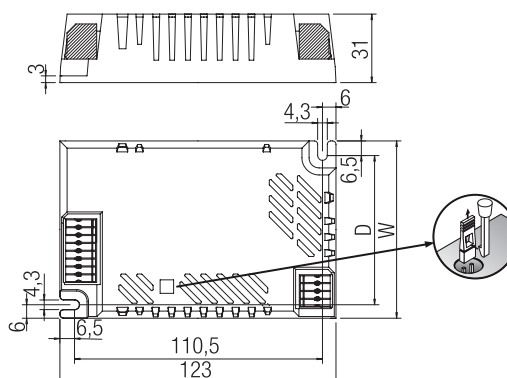
Properties

- Lightweight one-part emergency lighting unit
- Simple wiring
- No compatibility problems
- 3 h rated duration for TC-DD lamp variants
- 1 and 3 h rated duration for TC-D/T lamp variants
- Selectable operating time (jumper)
- Hot lamp restart in normal operation
- Filament heating in emergency operation for TC-D/T lamps
- AC operation of all lamps
- Automatic restart after relamping in normal operation
- Green charge status display LED
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Checking the emergency lighting function by interrupting the unswitched phase
- Small dimensions
- IDC (insulation displacement connection)
- Electronically controlled battery charging
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery

Batteries

- Separate battery pack
- High-temperature cells
- NiCd or NiMH batteries
- D or Cs cells

→ For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains voltage changeover threshold	according to EN 60598-2-22
Leakage current (PE)	< 0.5 mA
Min. lamp starting temperature (normal operation)	-15 °C
Min. lamp starting temperature (emergency operation)	0 °C
Ambient temperature t_a	0 ... +55 °C
tc point	75 °C
Operating frequency	> 42 kHz
Operating frequency (normal operating)	> 42 kHz
Operating frequency (emergency mode)	typ. 17 kHz
Overvoltage protection	320 V (for 1 h)
Battery charging time	24 h
Type of protection	IP20
Protection class	I

Ordering data

Type	Article number
Rated operating time 3 / 1 h	
PC 1x18-3 TC COMBO	89899990
PC 1x18-4 TC COMBO	89899927
PC 2x18-3 TC COMBO	89899982
PC 2x18-4 TC COMBO	89899928
PC 1x26-3 TC COMBO	89899983
PC 1x26-4 TC COMBO	89899976
PC 1x26/32-5 TC COMBO	89899929
PC 1x26/32/42-6 TC COMBO	89899931

Packaging 123x79x31 mm casing: 25 pieces/carton, 700 pieces/pallet

Packaging 123x102x31 mm casing: 25 pieces/carton, 450 pieces/pallet



Product matrix, page 306

Standards, page 306

Batteries, from page 369

For wiring diagrams and installation examples see data sheet

Ordering data

Type	Article number
PC 2x26-3 TC COMBO	89899984
PC 2x26-4 TC COMBO	89899930
PC 2x26/32-5 TC COMBO	89899998
PC 2x26/32/42-6 TC COMBO	89899989
Rated operating time 3 h, High Output BLF	
PC 1x16-33 HO DD COMBO	89899926
PC 1x28-33 HO DD COMBO	89899957
PC 1x28-34 HO DD COMBO	89899958
PC 1x38-34 HO DD COMBO	89899933
PC 1x38-35 HO DD COMBO	89899975
Rated operating time 3 h, Low Output BLF	
PC 1x28-33 LO DD COMBO	89899943
PC 1x28-34 LO DD COMBO	89899955
PC 1x38-34 LO DD COMBO	89899981

Packaging 123x79x31 mm casing: 25 pieces/carton, 700 pieces/pallet

Packaging 123x102x31 mm casing: 25 pieces/carton, 450 pieces/pallet

Specific technical data

Lamp type	Lamp Wattage	Type	Number of cells	Article number	Dimensions LxWxH	Hole spacing D	Weight	Lamp Wattage	Circuit power	Mains current ²⁾	λ ²⁾	Normal operation BLF	Emergency operation BLF	Emergency operation EBLF ³⁾	Rated duration
Rated operating time 3 / 1 h															
TC-DEL	1x18W	PC 1x18-3 TC COMBO	3	89899990	123x79x31 mm	66.5 mm	0.17 kg	16.5W	22W	0.100 A	0.96	1.00	0.110	0.090	3 / 1 h
TC-TEL	1x18W	PC 1x18-3 TC COMBO	3	89899990	123x79x31 mm	66.5 mm	0.17 kg	16.5W	22W	0.100 A	0.96	1.00	0.090	0.080	3 / 1 h
TC-DEL	1x18W	PC 1x18-4 TC COMBO	4	89899927	123x79x31 mm	66.5 mm	0.17 kg	16.5W	24W	0.110 A	0.96	1.00	0.190	0.175	3 / 1 h
TC-TEL	1x18W	PC 1x18-4 TC COMBO	4	89899927	123x79x31 mm	66.5 mm	0.17 kg	16.5W	24W	0.110 A	0.96	1.00	0.150	0.150	3 / 1 h
TC-DEL	2x18W	PC 2x18-3 TC COMBO	3	89899982	123x102x31 mm	89.5 mm	0.22 kg	34.0W	40W	0.180 A	0.97	1.00	0.110	0.090	3 / 1 h
TC-TEL	2x18W	PC 2x18-3 TC COMBO	3	89899982	123x102x31 mm	89.5 mm	0.22 kg	34.0W	40W	0.180 A	0.97	1.00	0.090	0.080	3 / 1 h
TC-DEL	2x18W	PC 2x18-4 TC COMBO	4	89899928	123x102x31 mm	89.5 mm	0.22 kg	33.0W	43W	0.190 A	0.97	1.00	0.190	0.175	3 / 1 h
TC-TEL	2x18W	PC 2x18-4 TC COMBO	4	89899928	123x102x31 mm	89.5 mm	0.22 kg	33.0W	43W	0.190 A	0.97	1.00	0.150	0.150	3 / 1 h
TC-DEL	1x26W	PC 1x26-3 TC COMBO	3	89899983	123x79x31 mm	66.5 mm	0.17 kg	24.0W	28W	0.130 A	0.95	1.00	0.095	0.080	3 / 1 h
TC-TEL	1x26W	PC 1x26-3 TC COMBO	3	89899983	123x79x31 mm	66.5 mm	0.17 kg	24.0W	28W	0.130 A	0.95	1.00	0.065	0.055	3 / 1 h
TC-DEL	1x26W	PC 1x26-4 TC COMBO	4	89899976	123x79x31 mm	66.5 mm	0.17 kg	24.0W	30W	0.140 A	0.95	1.00	0.085	0.095	3 / 1 h
TC-TEL	1x26W	PC 1x26-4 TC COMBO	4	89899976	123x79x31 mm	66.5 mm	0.17 kg	24.0W	30W	0.140 A	0.95	1.00	0.085	0.085	3 / 1 h
TC-DEL	1x26W	PC 1x26/32-5 TC COMBO	5	89899929	123x79x31 mm	66.5 mm	0.17 kg	24.0W	30W	0.140 A	0.95	1.00	0.140	0.105	3 / 1 h
TC-TEL	1x26W	PC 1x26/32-5 TC COMBO	5	89899929	123x79x31 mm	66.5 mm	0.17 kg	24.0W	30W	0.140 A	0.95	1.00	0.120	0.075	3 / 1 h
TC-TEL	1x32W	PC 1x26/32-5 TC COMBO	5	89899929	123x79x31 mm	66.5 mm	0.17 kg	32.0W	38W	0.170 A	0.97	1.00	0.070	0.035	3 / 1 h
TC-DEL	1x26W	PC 1x26/32/42-6 TC COMBO	6	89899931	123x79x31 mm	66.5 mm	0.17 kg	24.0W	30W	0.140 A	0.95	1.00	0.110	0.095	3 / 1 h
TC-TEL	1x26W	PC 1x26/32/42-6 TC COMBO	6	89899931	123x79x31 mm	66.5 mm	0.17 kg	24.0W	30W	0.140 A	0.95	1.00	0.080	0.080	3 / 1 h
TC-TEL	1x32W	PC 1x26/32/42-6 TC COMBO	6	89899931	123x79x31 mm	66.5 mm	0.17 kg	32.0W	40W	0.180 A	0.95	1.00	0.090	0.085	3 / 1 h
TC-TEL	1x42W	PC 1x26/32/42-6 TC COMBO	6	89899931	123x79x31 mm	66.5 mm	0.17 kg	42.0W	52W	0.230 A	0.95	1.00	0.065	0.060	3 / 1 h
TC-DEL	2x26W	PC 2x26-3 TC COMBO	3	89899984	123x102x31 mm	89.5 mm	0.22 kg	48.0W	52W	0.230 A	0.95	1.00	0.095	0.080	3 / 1 h
TC-TEL	2x26W	PC 2x26-3 TC COMBO	3	89899984	123x102x31 mm	89.5 mm	0.22 kg	48.0W	52W	0.230 A	0.95	1.00	0.065	0.055	3 / 1 h
TC-DEL	2x26W	PC 2x26-4 TC COMBO	4	89899930	123x102x31 mm	89.5 mm	0.22 kg	48.0W	56W	0.250 A	0.95	1.00	0.085	0.095	3 / 1 h
TC-TEL	2x26W	PC 2x26-4 TC COMBO	4	89899930	123x102x31 mm	89.5 mm	0.22 kg	48.0W	56W	0.250 A	0.95	1.00	0.085	0.085	3 / 1 h
TC-DEL	2x26W	PC 2x26/32-5 TC COMBO	5	89899998	123x102x31 mm	89.5 mm	0.22 kg	48.0W	56W	0.260 A	0.97	1.00	0.140	0.105	3 / 1 h
TC-TEL	2x26W	PC 2x26/32-5 TC COMBO	5	89899998	123x102x31 mm	89.5 mm	0.22 kg	50.0W	57W	0.260 A	0.97	1.00	0.120	0.100	3 / 1 h
TC-TEL	2x32W	PC 2x26/32-5 TC COMBO	5	89899998	123x102x31 mm	89.5 mm	0.22 kg	62.0W	71W	0.330 A	0.98	1.00	0.100	0.085	3 / 1 h
TC-DEL	2x26W	PC 2x26/32/42-6 TC COMBO	6	89899989	123x102x31 mm	89.5 mm	0.22 kg	49.0W	58W	0.260 A	0.98	1.00	0.110	0.095	3 / 1 h
TC-TEL	2x26W	PC 2x26/32/42-6 TC COMBO	6	89899989	123x102x31 mm	89.5 mm	0.22 kg	49.0W	58W	0.260 A	0.98	1.00	0.080	0.080	3 / 1 h
TC-TEL	2x32W	PC 2x26/32/42-6 TC COMBO	6	89899989	123x102x31 mm	89.5 mm	0.22 kg	62.0W	75W	0.330 A	0.98	1.00	0.090	0.085	3 / 1 h
TC-TEL	2x42W	PC 2x26/32/42-6 TC COMBO	6	89899989	123x102x31 mm	89.5 mm	0.22 kg	82.0W	98W	0.440 A	0.98	1.00	0.065	0.060	3 / 1 h
Rated operating time 3h, high Output BLF															
TC-DD	1x16W	PC 1x16-33h0 DD COMBO	3	89899926	123x79x31 mm	66.5 mm	0.17 kg	13.0W	18W	0.084 A	0.95	1.00	0.090	0.085	3h
TC-DD	1x28W	PC 1x28-33h0 DD COMBO ¹⁾	3	89899957	123x79x31 mm	66.5 mm	0.17 kg	25.0W	31W	0.140 A	0.96	1.00	0.110	0.100	3h
TC-DD	1x28W	PC 1x28-34h0 DD COMBO	4	89899958	123x79x31 mm	66.5 mm	0.17 kg	25.0W	31W	0.140 A	0.96	1.00	0.150	0.115	3h
TC-DD	1x38W	PC 1x38-34h0 DD COMBO ¹⁾	4	89899933	123x79x31 mm	66.5 mm	0.17 kg	34.0W	41W	0.180 A	0.96	1.00	0.060	0.055	3h
TC-DD	1x38W	PC 1x38-35h0 DD COMBO	5	89899975	123x79x31 mm	66.5 mm	0.17 kg	34.0W	41W	0.180 A	0.96	1.00	0.100	0.085	3h
Rated operating time 3h, Low Output BLF															
TC-DD	1x28W	PC 1x28-33 LO DD COMBO ¹⁾	3	89899943	123x79x31 mm	66.5 mm	0.17 kg	17.0W	24W	0.110 A	0.96	0.75	0.110	0.100	3h
TC-DD	1x28W	PC 1x28-34 LO DD COMBO	4	89899955	123x79x31 mm	66.5 mm	0.17 kg	17.0W	24W	0.110 A	0.96	0.75	0.150	0.115	3h
TC-DD	1x38W	PC 1x38-34 LO DD COMBO ¹⁾	4	89899981	123x79x31 mm	66.5 mm	0.17 kg	26.0W	35W	0.160 A	0.96	0.85	0.060	0.055	3h

¹⁾ Only for Bi-ax non-amalgam lamps²⁾ For 230 V, 50 Hz³⁾ According to EN 61347-2-7: 2006

ACCES-
SORIES

Test switch EM2

Product description

- For connection to the emergency lighting unit
- For checking the device function



Ordering data

Type	Article number
Test switch EM 2	89805277

Packaging: 25 pieces/bag, 200 pieces/carton

ACCES-
SORIES

Status indication charging current

Product description

- A green LED indicates that charging current is flowing into the battery



Ordering data

Type	Article number
LED EM green	89899605
LED EM green, ultra high brightness	89899756

Packaging: 25 pieces/bag, 200 pieces/carton

PC CFL COMBO for TC-DD, TC-DEL, TC-TEL compact lamps, 3 or 1 h

	Duration	3 or 1 h								
	Cells	3 cells	4 cells	3 cells	4 cells	3 cells	4 cells	5 cells	6 cells	
	Type	PC 1x18-3 TC COMBO	PC 1x18-4 TC COMBO	PC 2x18-3 TC COMBO	PC 2x18-4 TC COMBO	PC 1x26-3 TC COMBO	PC 1x26-4 TC COMBO	PC 1x26/32-5 TC COMBO	PC 1x26/32/42-6 TC COMBO	
	Article no.	89899990	89899927	89899982	89899928	89899983	89899976	89899929	89899931	
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time								
TC-DEL/TEL	18W	11/9	19/15	11/9	19/15					
	26W					9.5/6.5	8.5	14/12	11/8	
	32W							7	9	
	42W								6.5	
TC-DD	16W									
	28W									
	38W									

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries								
NiCd 1.5 Ah Cs-cells	Stick	3	Accu-NiCd C 3A	89899743	•		•		•				
	Stick	4	Accu-NiCd C 4A	89899692		•		•		•			
	Stick	5	Accu-NiCd C 5A	89899695							•		
	Stick	6	Accu-NiCd C 6A	89899698								•	
	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699								•	
NiCd 4.0 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•		•		•				
	Stick	4	Accu-NiCd 4A	89895961		•		•		•			
	Stick	5	Accu-NiCd 5A	89895973							•		
	Stick + Stick	3 + 2	Accu-NiCd 5B	89895962							•		
	Stick + Stick	3 + 3	Accu-NiCd 6A	89895963								•	
NiMH 2.0 Ah Cs-cells	Stick	3	Accu-NiMH C 3A	89899744	•		•		•				
	Stick	4	Accu-NiMH C 4A	89899700		•		•		•			
	Stick	5	Accu-NiMH C 5A	89899703							•		
	Stick	6	Accu-NiMH C 6A	89899706								•	
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707								•	
NiMH 4.0 Ah Cs-cells ①	Stick	3	Accu-NiMH 4 Ah C 3A	89899854	•		•		•				
	Stick	4	Accu-NiMH 4 Ah C 4A	89899850		•		•		•			
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851							•		
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852								•	
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853								•	
Accupack NiCd (high temperature)	Accupack 4.0 Ah	3	Pack-NiCd 3D	89899672	•		•		•				
	Accupack 4.0 Ah	4	Pack-NiCd 4D	89899673		•		•		•			
	Accupack 4.0 Ah	5	Pack-NiCd 5D	89899674							•		
	Accupack 4.0 Ah	6	Pack-NiCd 6D	89899675								•	
	Accupack 1.5 Ah	3	Pack-NiCd 3C	89899676	•		•		•				
	Accupack 1.5 Ah	4	Pack-NiCd 4C	89899677		•		•		•			
	Accupack 1.5 Ah	5	Pack-NiCd 5C	89899678							•		
	Accupack 1.5 Ah	6	Pack-NiCd 6C	89899679								•	

For 3-hour operation: 4.0 Ah D-cells NiCd or 4.0 Ah Cs-cells NiMH.

For 1-hour operation: 1.5 Ah Cs-cells NiCd or 2.0 Ah Cs-cells NiMH.

① Maximum battery housing temperature 45 °C.

3 or 1 h				3 h							
3 cells	4 cells	5 cells	6 cells	3 cells	4 cells	4 cells	3 cells	3 cells	4 cells	4 cells	5 cells
PC 2x26-3 TC COMBO	PC 2x26-4 TC COMBO	PC 2x26/32-5 TC COMBO	PC 2x26/32/42-6 TC COMBO	PC 1x28-33 LO DD COMBO	PC 1x28-34 LO DD COMBO	PC 1x38-34 LO DD COMBO	PC 1x16-33 HO DD COMBO	PC 1x28-33 HO DD COMBO	PC 1x28-34 HO DD COMBO	PC 1x38-34 HO DD COMBO	PC 1x38-35 HO DD COMBO
89899984	89899930	89899998	89899989	89899943	89899955	89899981	89899926	89899957	89899958	89899933	89899975

BLF in emergency lighting mode in % for rated operating time

9.5/6.5	8.5	14/12	11/8								
		10	9								
			6.5								
							9				
				11	15			11	15		
						6				6	10

Assignable batteries

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NEW

PC CFL E COMBO, 230 – 240 V

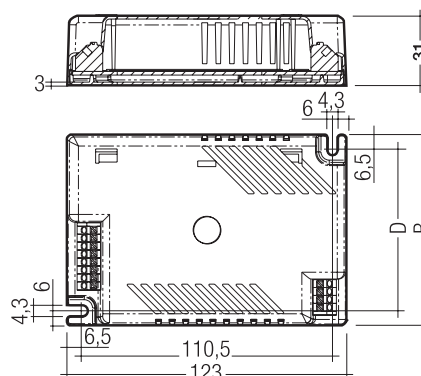
Compact fluorescent lamps

Product description

- Combination of electronic ballast and emergency lighting unit
- For compact fluorescent lamps
- For manual testing of the emergency lighting function

Properties

- Lightweight one-part emergency lighting unit
- Simple wiring
- No compatibility problems
- 3 h rated duration
- Green charge status display LED
- Checking the emergency lighting function by interrupting the unswitched phase
- Small dimensions
- Hot lamp restart in normal operation
- AC operation of the lamp
- Automatic restart after relamping in normal operation
- Plug-in terminals
- Deep discharge protection
- Battery connection, short-circuit protected (not reversible)
- Polarity reversal protection for battery

**Batteries**

- Separate battery pack
- High-temperature cells
- NiCd batteries
- D cells

→ For product data sheet go to www.tridonic.com, or available on request



Product matrix, page 306

Standards, page 306

Batteries, from page 369

For wiring diagrams and installation examples see data sheet

Technical data

Rated supply voltage	230 – 240 V
Mains frequency	50 / 60 Hz
Mains voltage changeover threshold	according to EN 60598-2-22
Min. lamp starting temperature (normal operation)	-15 °C
Min. lamp starting temperature (emergency operation)	0 °C
Ambient temperature t_a	0 ... +55 °C
t_c point	75 °C
Operating frequency (normal operating)	> 42 kHz
Operating frequency (emergency mode)	typ. 17 kHz
Battery charging time	24 h
Charge current	200 mA
Discharge current	1.1 A
Type of protection	IP20
Protection class	I

Ordering data

Type	Article number
Rated operating time 3 h, Low Output BLF	
PC 1x28-33 LO E DD COMBO	89899980
PC 1x28-34 LO E DD COMBO	89800028

Packaging: 25 pieces/carton, 700 pieces/pallet

Specific technical data

Lamp type	Lamp wattage	Type	Number of cells	Article number	Dimensions LxWxH	Hole spacing D	Weight	Lamp wattage	Circuit power	Mains current ^①	λ ^①	Normal operation BLF	Emergency operation BLF	Emergency operation EBLF ^②	Rated duration
Rated operating time 3 h, Low Output BLF															
TC-DD	1x28 W	PC 1x28-33 LO E DD COMBO	3	89899980	123x79x31 mm	66.5 mm	0.25 kg	16 W	23.4 W	0.16 A	0.63	0.7	0.105	0.090	3 h
TC-DD	1x28 W	PC 1x28-34 LO E DD COMBO	4	89800028	123x79x31 mm	66.5 mm	0.25 kg	16 W	25.0 W	0.17 A	0.64	0.7	0.145	0.135	3 h

^① For 230 V, 50 Hz

^② According to EN 61347-2-7: 2006

ACCES-SORIES

Status indication charging current

Product description

- A green LED indicates that charging current is flowing into the battery



Ordering data

Type	Article number
LED EM green	89899605
LED EM green, ultra high brightness	89899756

Packaging: 25 pieces/bag, 200 pieces/carton

PC CFL E COMBO for TC-DD compact lamps, 3 h

			Duration	3 h	
			Cells	3 cells	4 cells
			Type	PC 1x28-33 LO E DD COMBO	PC 1x28-34 LO E DD COMBO
			Article no.	89899980	89800028
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time			
TC-DD	28 W			10.5	14.5
Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries
NiCd 4.0 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•
	Stick	4	Accu-NiCd 4A	89895961	•
Accupack NiCd (high temperature)	Accupack 4.0 Ah	3	Pack-NiCd 3D	89899672	•
	Accupack 4.0 Ah	4	Pack-NiCd 4D	89899673	•

RoHS

TALEXstrip ES

TALEX emergency lighting modules

Product description

- Lighting module with 8, 10 or 12 high-power LEDs (emergency lighting strip)
- For use in escape route signs

Properties

- Suitable for Tridonic EM powerLED emergency lighting units
- For permanent and standby operation
- Wide 120° distribution of light for uniform illumination
- Operation on a constant current source
- Replacement for 8 W T5 fluorescent lamp
- Several options for uniform light distribution
- Can be interconnected to create longer strips
- Low energy consumption
- Long life thanks to low operating temperature
- Provides a maintenance-free escape sign system
- Polarity reversal protection for battery
- Simple mounting/installation

Note

Separate status LED required

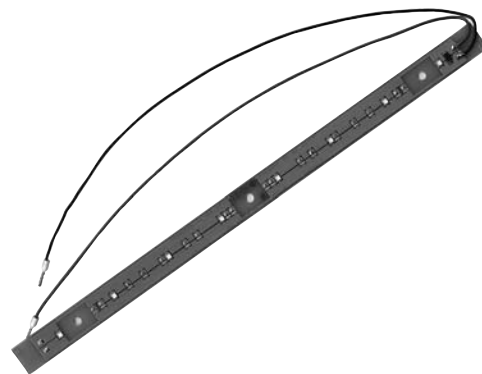
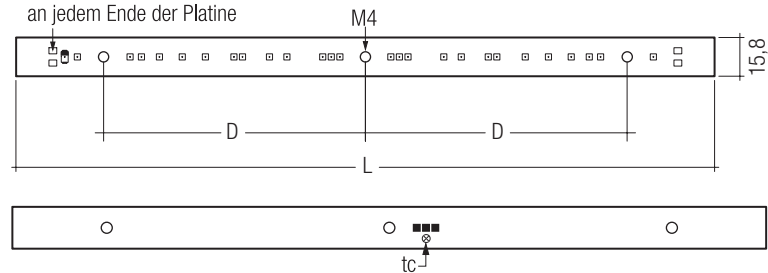
- For product data sheet go to www.tridonic.com, or available on request



Product matrix, page 306

Standards, page 306

For wiring diagrams and installation examples see data sheet

Position zum Anbringen von Leitungen
an jedem Ende der Platine**Ordering data**

Colour	Colour temperature	Type	Article number
8 light points per module			
Daylight white	6,500 K	ES 08 246	89899954
Daylight white	6,500 K	ES 08 285	89899947
10 light points per module			
Daylight white	6,500 K	ES 10 285	89899948
12 light points per module			
Daylight white	6,500 K	ES 12 285	89899949

Packaging: 25 pieces/carton, 600 pieces/pallet

Specific technical data

Type	Typ. luminous flux ^①	Max. current ^②	Power ^③	Ambient temperature ta ^④	tc point ^⑤	Total length	Hole spacing D
8 light points per module							
ES 08 246	60 lm	350 mA	typ. 1.1 W	-20 ... +40 °C	60 °C	246 mm	97.9 mm
ES 08 285	60 lm	350 mA	typ. 1.1 W	-20 ... +40 °C	60 °C	285 mm	106.8 mm
10 light points per module							
ES 10 285	60 lm	350 mA	typ. 1.1 W	-20 ... +40 °C	60 °C	285 mm	106.8 mm
12 light points per module							
ES 12 285	60 lm	350 mA	typ. 1.1 W	-20 ... +40 °C	60 °C	285 mm	106.8 mm

^① Tolerance range for optical and electrical data: ±15 %^② Exceeding the max. operating current leads to an overload on the TALEXstrip. This may in turn result in a significant reduction in lifetime or even destruction of the TALEXstrip.^③ Data for operation with 350 mA.^④ If the max. temperature limits are exceeded, the life of the module will be reduced or the module may be damaged. The temperature of the TALEXstrip at the tc-point is to be measured in the thermally stable state. For tc-point see the above diagram.

All values at ta = 25 °C

ACCESSORIES

Status indication charging current

Product description

- A green LED indicates that charging current is flowing into the battery



Ordering data

Type	Article number
LED EM green	89899605
LED EM green, ultra high brightness	89899756

Packaging: 25 pieces/bag, 200 pieces/carton

ACCESSORIES

Status indication system OK/fault

Product description

- Two-colour status display LED
- Green: system OK, red: fault



Ordering data

Type	Article number
LED EM bi-colour	89899720
LED EM bi-colour, high brightness	89899753

Packaging: 25 pieces/bag, 200 pieces/carton

RoHS

NEW

TALEXengine EM-AP 003

TALEX emergency lighting modules

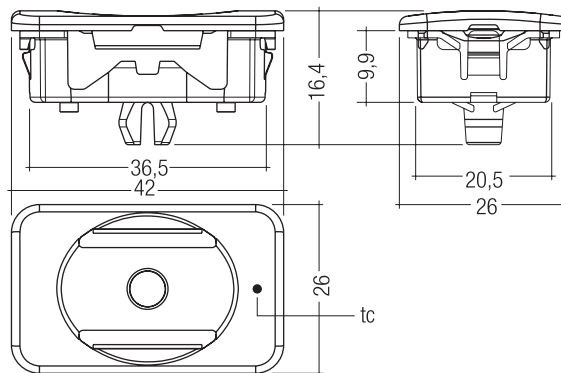
Product description

- Latest generation LED light source
- Anti-panic emergency lighting: illuminance
 $E \geq 0.5$ lux (as per EN 1838)

Properties

- High-power LED in chip-on-board technology (COB)
- Suitable for Tridonic EM powerLED emergency lighting units
- Long life thanks to integrated heat removal
- Optimised system efficiency with broad beam characteristic
- Integrated bi-colour status LED
- Reverse polarity protection
- Small dimensions
- Different installation options

→ For product data sheet go to www.tridonic.com,
or available on request



Technical data

Ambient temperature t_a	-20 ... +50 °C
tc point ^②	60 °C

Ordering data

Colour	Colour temperature	Type	Article number
Daylight white	6,500 K	EM-AP 003	89600960

Packaging: 10 pieces

Specific technical data

Type	Typ. luminous flux	Min. luminous flux	Max. current ^③	Power ^{① ④}
EM-AP 003	110 lm	100 lm	350 mA	1.2 W

^① Data for operation with 350 mA.

^② If the max. temperature limits are exceeded, the life of the module will be reduced or the module may be damaged. The temperature of the TALEXengine at the tc-point is to be measured in the thermally stable state. For tc-point see the above diagram.

^③ Exceeding the max. operating current leads to an overload on the TALEXengine. This may in turn result in a significant reduction in lifetime or even destruction of the TALEXengine.

^④ Tolerance range for optical and electrical data: $\pm 15\%$

All values at $t_a = 25\text{ °C}$

Product description

- Latest generation LED light source
- Anti-panic emergency lighting: illuminance
E = 1.0 lux (as per EN 1838)

Properties

- High-power LED in chip-on-board technology (COB)
- Suitable for Tridonic EM powerLED emergency lighting units
- Long life thanks to integrated heat removal
- Optimised system efficiency with beam characteristic
- Integrated bi-colour status LED
- Reverse polarity protection
- Small dimensions
- Different installation options

→ For product data sheet go to www.tridonic.com,
or available on request



Technical data

Ambient temperature t_a	-20 ... +50 °C
tc point ^②	60 °C

Ordering data

Colour	Colour temperature	Type	Article number
daylight white	6,500 K	EM-ER 003	89600961

Packaging: 10 pieces



Product matrix, page 306

Standards, page 306

Colour temperatures and tolerances, page 458

For wiring diagrams and installation examples see data sheet

Specific technical data

Type	Typ. luminous flux	Min. luminous flux	Max. current ^③	Power ^{①④}
EM-ER 003	95 lm	85 lm	350 mA	1.2 W

^① Data for operation with 350 mA.

^② If the max. temperature limits are exceeded, the life of the module will be reduced or the module may be damaged. The temperature of the TALEXengine at the tc-point is to be measured in the thermally stable state. For tc-point see the above diagram.

^③ Exceeding the max. operating current leads to an overload on the TALEXengine. This may in turn result in a significant reduction in lifetime or even destruction of the TALEXengine.

^④ Tolerance range for optical and electrical data: ±15 %

All values at $t_a = 25\text{ °C}$



EM powerLED BASIC

Emergency lighting supply units

Product description

- LED emergency lighting supply unit for manual testing

Properties

- Mains and emergency operation
- Low-profile casing (21 x 30 mm cross-section)
- Constant current mode
- With either screw or clip fastening (clip-fix)
- 1, 2 or 3 h rated duration
- Selectable operating time (jumper)
- 1 or 2 W version
- Green charge status display LED
- Output power limitation
- Automatic restart after LED replacement
- Electronic multi-level charge system
- SELV classified (outputs powerLED, battery, status LED, test switch)
- Polarity reversal protection for battery
- Deep discharge protection
- Short-circuit-proof battery connection
- Emergency lighting LEDs available

Batteries

- High-temperature cells
- NiMH batteries
- Cs cells
- Blade terminals for simple connection

→ For product data sheet go to www.tridonic.com, or available on request



Product matrix, page 306

Standards, page 306

Batteries, page 372

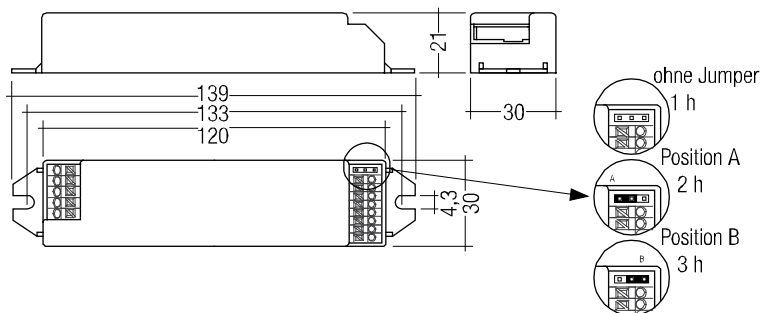
For wiring diagrams and installation examples see data sheet



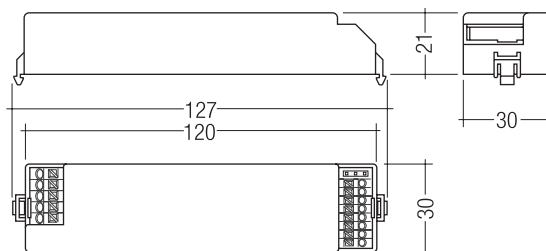
Screw-fix



Clip-fix



Screw-fix



Clip-fix

Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current, 1 W device	30 mA
Mains current, 2 W device	42 mA
Power in mains operation, 1 W device	4 W
Power in mains operation, 2 W device	6 W
Maximum LED forward bias Vf	3.4 V
Overvoltage protection	320 V (for 1 h)
Battery charging time	12 h
Charge current, initial charge	125 mA
Charge current, power charge	210 mA
Charge current, trickle charge	50 mA
Battery discharge current	See data sheet
Leakage current (PE)	< 0.5 mA
Ambient temperature ta	-25 ... +50 °C
Max. casing temperature tc	70 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Type of protection	IP20
Protection class	I
Weight	0.073 kg

Ordering data

Max. number of LEDs	Wattage	Type	Article number
Screw fastening version			
1	1.2 W	EM powerLED 1 W BASIC	89899858
2	2.0 W	EM powerLED 2 W BASIC	89899859
Clip fastening version			
1	1.2 W	EM powerLED 1 W BASIC	89899865
2	2.0 W	EM powerLED 2 W BASIC	89899866

Packaging: 25 pieces/carton, 600 pieces/pallet

Specific technical data

Type	LED current in emergency operation		LED current in mains operation		Number of cells / jumper		
	1 x LED	2 x LED	1 x LED	2 x LED	1 h / removed	2 h / position A	3 h / position B
EM powerLED 1 W BASIC	350 mA	–	350 mA	–	2	3	3
EM powerLED 2 W BASIC	600 mA	350 mA	350 mA	350 mA	3	4	5

ACCES-
SERIES

Test switch EM2

Product description

- For connection to the emergency lighting unit
- For checking the device function



Ordering data

Type	Article number
Test switch EM 2	89805277

Packaging: 25 pieces/bag, 200 pieces/carton

ACCES-
SERIES

Status indication charging current

Product description

- A green LED indicates that charging current is flowing into the battery



Ordering data

Type	Article number
LED EM green	89899605
LED EM green, ultra high brightness	89899756

Packaging: 25 pieces/bag, 200 pieces/carton



EM powerLED SELFTEST

Emergency lighting supply units

Product description

- LED emergency lighting supply unit with self-test function

Properties

- Mains and emergency operation
- Self-test as per IEC 62034
- Low-profile casing (21 x 30 mm cross-section)
- Constant current mode
- With either screw or clip fastening (clip-fix)
- 1, 2 or 3 h rated duration
- Selectable operating time (jumper)
- 1 or 2 W version
- Output power limitation
- Two-colour status display LED
- „Rest mode“ function
- Simple set-up
- Automatic restart after LED replacement
- Electronic multi-level charge system
- SELV classified (outputs powerLED, battery, status LED, test switch)
- Polarity reversal protection for battery
- Deep discharge protection
- Short-circuit-proof battery connection
- Emergency lighting LEDs available
- Self-test:
 - Status of the battery
 - Status of the LED
 - Charge condition
 - Function test
 - Service life test

Batteries

- High-temperature cells
- NiMH batteries
- Cs cells
- Blade terminals for simple connection

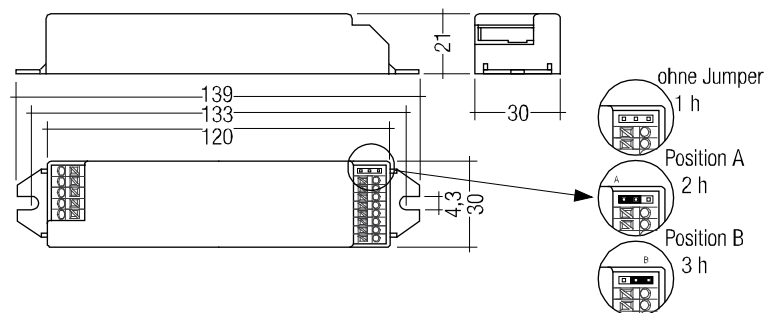
→ For product data sheet go to www.tridonic.com,
or available on request



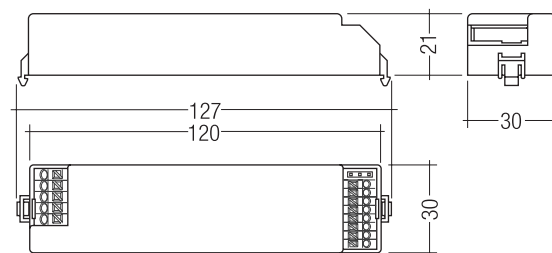
Screw-fix



Clip-fix



Screw-fix



Clip-fix



Product matrix, page 306

Standards, page 306

Batteries, page 372

For wiring diagrams and installation examples see data sheet

Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current, 1 W device	30 mA
Mains current, 2 W device	42 mA
Power in mains operation, 1 W device	4 W
Power in mains operation, 2 W device	6 W
Maximum LED forward bias Vf	3.4 V
Overvoltage protection	320 V (for 1 h)
Battery charging time	12 h
Charge current, initial charge	125 mA
Charge current, power charge	210 mA
Charge current, trickle charge	50 mA
Battery discharge current	See data sheet
Leakage current (PE)	< 0.5 mA
Ambient temperature ta	-25 ... +50 °C
Max. casing temperature tc	70 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Type of protection	IP20
Protection class	I
Weight	0.073 kg
Rest mode max. number of emergency units	100
Rest mode max. wiring distance	1,000 m
Functional test	Weekly 5s test
Service life test	Yearly 1 h / 2 h / 3 h test

Ordering data

Max. number of LEDs	Wattage	Type	Article number
Screw fastening version			
1	1.2 W	EM powerLED 1 W ST	89899860
2	2.0 W	EM powerLED 2 W ST	89899861
Clip fastening version			
1	1.2 W	EM powerLED 1 W ST	89899867
2	2.0 W	EM powerLED 2 W ST	89899868

Packaging: 25 pieces/carton, 600 pieces/pallet

Specific technical data

Type	LED current in emergency operation		LED current in mains operation		Number of cells / jumper		
	1 x LED	2 x LED	1 x LED	2 x LED	1 h / removed	2 h / position A	3 h / position B
EM powerLED 1 W ST	350 mA	–	350 mA	–	2	3	3
EM powerLED 2 W ST	600 mA	350 mA	350 mA	350 mA	3	4	5

ACCES-
SORIES

Test switch EM2

Product description

- For connection to the emergency lighting unit
- For checking the device function



Ordering data

Type	Article number
Test switch EM 2	89805277

Packaging: 25 pieces/bag, 200 pieces/carton

ACCES-
SORIES

Status indication system OK/fault

Product description

- Two-colour status display LED
- Green: system OK, red: fault



Ordering data

Type	Article number
LED EM bi-colour	89899720
LED EM bi-colour, high brightness	89899753

Packaging: 25 pieces/bag, 200 pieces/carton

**EM powerLED PRO EZ-3**

Emergency lighting supply units

Product description

- LED emergency lighting supply unit with DALI interface and automatic test function

Properties

- Mains and emergency operation
- DALI interface for controlled testing and monitoring
- DALI switchable in mains operation (on/off); the switched phase SL must be switched on
- Low-profile casing (21 x 30 mm cross-section)
- Constant current mode
- With either screw or clip fastening (clip-fix)
- 1, 2 or 3 h rated duration
- Selectable operating time (jumper)
- 1 or 2 W version
- Output power limitation
- Two-colour status display LED
- Automatic restart after LED replacement
- Electronic multi-level charge system
- SELV classified (outputs powerLED, battery, status LED, test switch)
- Polarity reversal protection for battery
- Deep discharge protection
- Short-circuit-proof battery connection
- Addressing function, patented („EZ easy addressing“)
- Emergency lighting LEDs available

Tests:

- Status of the battery
- Status of the LED
- Charge condition
- Function test
- Service life test

Batteries

- High-temperature cells
- NiMH batteries
- Cs cells
- Blade terminals for simple connection

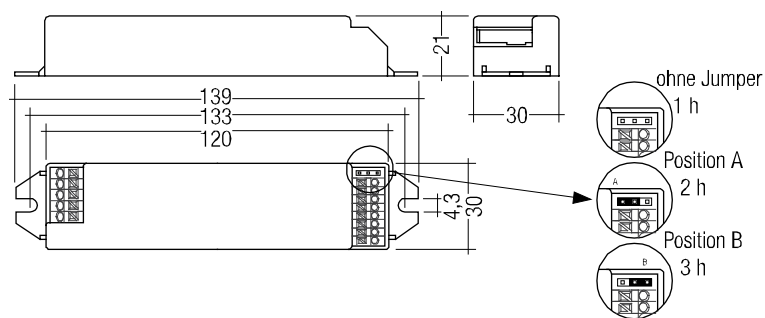
→ For product data sheet go to www.tridonic.com, or available on request



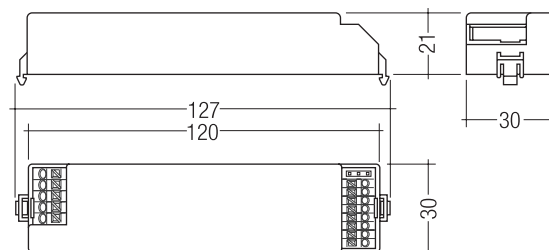
Screw-fix



Clip-fix



Screw-fix



Clip-fix



Product matrix, page 306

Standards, page 306

Batteries, page 372

For wiring diagrams and installation examples see data sheet

Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current, 1 W device	30 mA
Mains current, 2 W device	42 mA
Power in mains operation, 1 W device	4 W
Power in mains operation, 2 W device	6 W
Maximum LED forward bias Vf	3.4 V
Overvoltage protection	320 V (for 1 h)
Battery charging time	12 h
Charge current, initial charge	125 mA
Charge current, power charge	210 mA
Charge current, trickle charge	50 mA
Battery discharge current	See data sheet
Leakage current (PE)	< 0.5 mA
Ambient temperature ta	-25 ... +50 °C
Max. casing temperature tc	70 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Type of protection	IP20
Protection class	I
Weight	0.101 kg

Ordering data

Max. number of LEDs	Wattage	Type	Article number
Screw fastening version			
1	1.2 W	EM powerLED 1W PRO EZ-3	89800029
2	2.0 W	EM powerLED 2 W PRO EZ-3	89800030
Clip fastening version			
1	1.2 W	EM powerLED 1 W PRO EZ-3	89800031
2	2.0 W	EM powerLED 2 W PRO EZ-3	89800032

Packaging: 25 pieces/carton, 600 pieces/pallet

Specific technical data

Type	LED current in emergency operation		LED current in mains operation		Number of cells / jumper		
	1 x LED	2 x LED	1 x LED	2 x LED	1 h / removed	2 h / position A	3 h / position B
EM powerLED 1W PRO EZ-3	350 mA	–	350 mA	–	2	3	3
EM powerLED 2 W PRO EZ-3	600 mA	350 mA	350 mA	350 mA	3	4	5

ACCES-
SERIES

Test switch EM2

Product description

- For connection to the emergency lighting unit
- For checking the device function



Ordering data

Type	Article number
Test switch EM 2	89805277

Packaging: 25 pieces/bag, 200 pieces/carton

ACCES-
SERIES

Status indication system OK/fault

Product description

- Two-colour status display LED
- Green: system OK, red: fault



Ordering data

Type	Article number
LED EM bi-colour	89899720
LED EM bi-colour, high brightness	89899753

Packaging: 25 pieces/bag, 200 pieces/carton



e-touchBOX

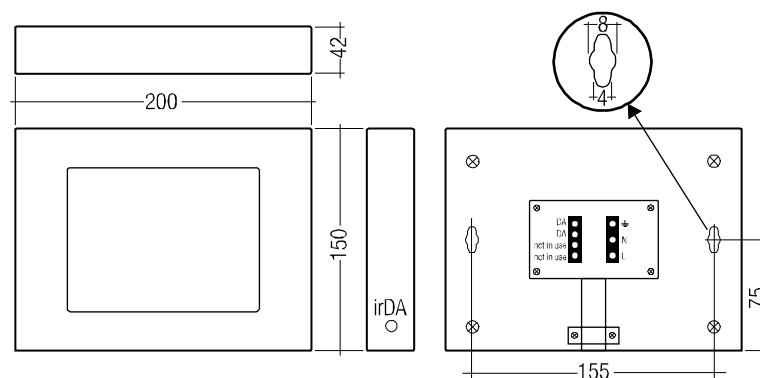
Emergency lighting control systems

Product description

- Emergency lighting system for 60 DALI emergency lighting units with integrated DALI bus supply

Properties

- For small systems
- Function and endurance tests can be conducted in accordance with local regulations
- Colour touch screen (5.7")
- User-friendly application software, including graphical user interface
- With DALI system functions of addressing and grouping
- Addressing function, patented („EZ easy addressing“)
- Individual labelling of groups and devices
- Calendar-controlled function and service life test
- Easy-to-read system status
- irDA interface
- Simple downloading of the test report to a PC and software updates via irDA
- Assembly/installation:
 - Connection to DALI bus and power supply
 - Simple fixing (2 screws)



Technical data

Rated supply voltage	110 – 240 V
Mains frequency	50 / 60 Hz
Power	10 W
Addresses for emergency lighting units	60
Addresses for external status displays	2
Max. output current	200 mA
Ambient temperature t_a	0 ... +50 °C
dimensions LxWxH	200 x 150 x 42 mm
Distance between mounting holes (D)	155 mm
Type of protection	IP20
Protection class	I

Ordering data

Type	Article number
e-touchBOX	24139015

Packaging: 1 pieces/carton

Note

- DALI is not SELV. The installation instructions for low voltage therefore apply
- For product data sheet go to www.tridonic.com, or available on request



Product matrix, page 306

Standards, page 306

For wiring diagrams and installation examples see data sheet



e-touchPANEL

Emergency lighting control systems

Product description

- Emergency lighting system for 120 DALI emergency lighting units (60 per DALI circuit)

Properties

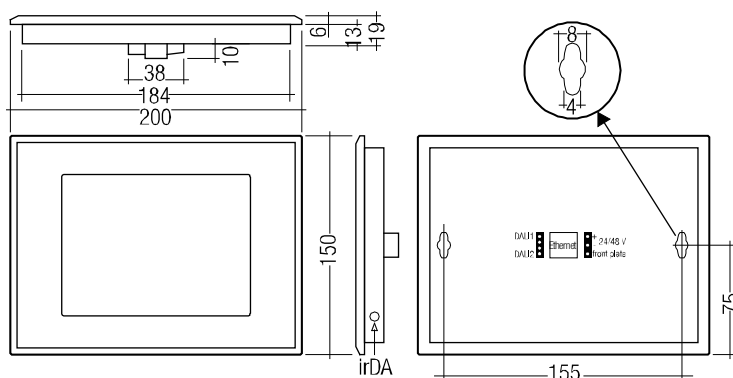
- For small and medium-size systems
- Function and endurance tests can be conducted in accordance with local regulations
- Colour touch screen (5.7")
- User-friendly application software, including graphical user interface
- With DALI system functions of addressing and grouping
- Supports patented addressing function („EZ easy addressing“)
- Individual labelling of groups and devices
- Calendar-controlled function and service life test
- Easy-to-read system status
- irDA interface / Ethernet
- Simple downloading of the test report to a PC and software updates via irDA or Ethernet
- Can be remote-controlled via standard internet browser or em-LINK software (available at www.tridonic.com)
- Interconnection of multiple panels for bigger installations possible

Assembly/installation:

- Connection to DALI bus and external power supply (included)
- External DALI bus supply needed
- Simple fixing (2 screws)

Note

- DALI is not SELV. The installation instructions for low voltage therefore apply
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	230 – 240 V
Mains frequency	50 / 60 Hz
Power	10 W
Number of DALI circuits	2
Addresses for emergency lighting units	120 (60 per DALI circuit)
Addresses for external status displays	2
Current draw per DALI circuit	2 mA
Ambient temperature t_a	0 ... +50 °C
dimensions LxWxH	200 x 150 x 20 mm
Distance between mounting holes (D)	155 mm
Type of protection	IP20
Protection class	I

Ordering data

Type	Article number
e-touchPANEL	24139117

Packaging: 1 pieces/carton



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Standards, page 306

For wiring diagrams and installation examples see data sheet



NiCd 1.5 Ah Cs-cells and NiCd 4.0 Ah D-cells

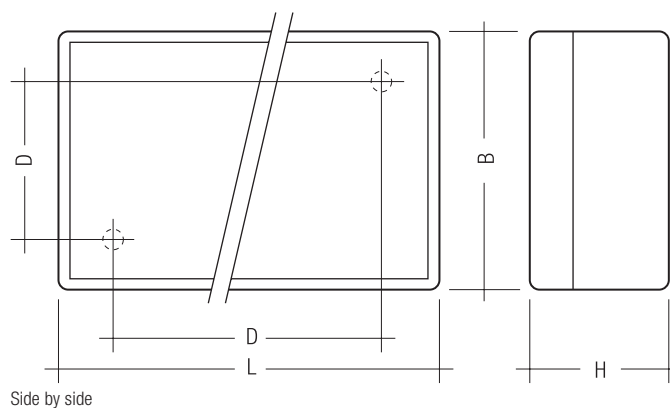
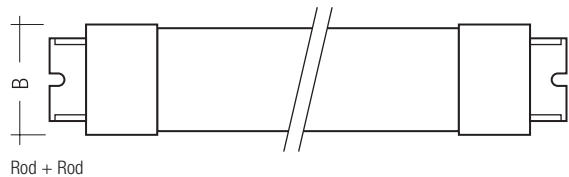
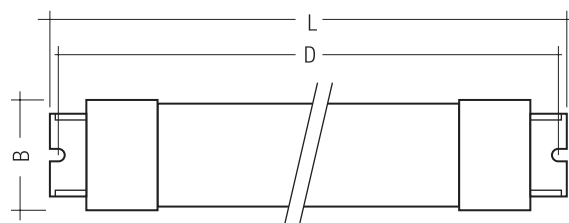
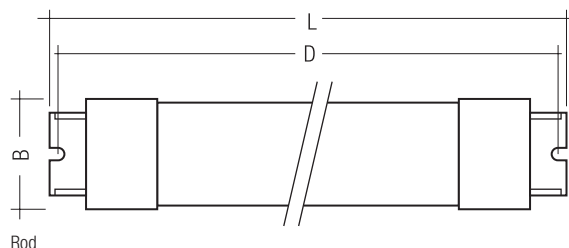
Nickel-cadmium cells (NiCd)

Product description

- High-temperature NiCd cells for use with emergency lighting units

Properties

- Constant high-temperature operation at 55 °C
 - Good charging properties at high temperature
 - High energy maintenance of the charged battery
 - 4 year life in operation at max. temperature
 - 4-year storage life (in moderate ambient conditions)
 - In various configurations
 - Simple connection with blade terminal
 - With polycarbonate fixing caps and connecting cable
 - Electrical connection with mounted end caps possible
 - High-quality European manufacturer
 - Complies with IEC 61951-2 (constant charging load test)
 - Suitable for emergency lighting equipment as per IEC 60598-2-22
- For product data sheet go to www.tridonic.com, or available on request



Product matrix, page 306

Standards, page 306

Technical data

Battery voltage per cell	1.2 V
Battery case temperature (for a life of 4 years)	0 ... +55 °C

Ordering data

Number of cells	Type	Type	Article number
NiCd 4.0 Ah D cells – rod			
1 x 3	rod	Akku-NiCd 3A	89895960
1 x 4	rod	Akku-NiCd 4A	89895961
1 x 5	rod	Akku-NiCd 5A	89895973
NiCd 4.0 Ah D cells – rod + rod			
2 + 2	rod + rod	Akku-NiCd 4C	89895978
2 + 3	rod + rod	Akku-NiCd 5B	89895962
3 + 3	rod + rod	Akku-NiCd 6A	89895963
NiCd 4.0 Ah D cells – next to one another			
3 x 1	side by side	Akku-NiCd 3B	89895976
4 x 1	side by side	Akku-NiCd 4B	89895977
NiCd 1.5 Ah Cs cells – rod			
3	rod	Akku-NiCd C 3A	89899743
1 x 4	rod	Akku-NiCd C 4A	89899692
1 x 5	rod	Akku-NiCd C 5A	89899695
1 x 6	rod	Akku-NiCd C 6A	89899698
NiCd 1.5 Ah Cs cells – rod + rod			
2 + 2	rod + rod	Akku-NiCd C 4C	89899694
3 + 2	rod + rod	Akku-NiCd C 5C	89899697
3 + 3	rod + rod	Akku-NiCd C 6C	89899699
06 NiCd 1.5 Ah Cs cells - next to one another			
3 x 1	side by side	Akku-NiCd C 3B	89899729
4 x 1	side by side	Akku-NiCd C 4B	89899693
5 x 1	side by side	Akku-NiCd C 5B	89899696

Packaging: 25 pieces/carton, 450 pieces/pallet

Specific technical data

Type	Number of cells	Article number	Image	Length L	Hole spacing D	Width B	Height H	Weight
NiCd 4.0 Ah D cells - rod								
Akku-NiCd 3A	3	89895960	1	218 mm	201 mm	37 mm	–	0.400 kg
Akku-NiCd 4A	4	89895961	1	275 mm	263 mm	37 mm	–	0.530 kg
Akku-NiCd 5A	5	89895973	1	338 mm	323 mm	37 mm	–	0.719 kg
NiCd 4.0 Ah D cells - rod + rod								
Akku-NiCd 4C	4	89895978	2	151 mm	139 mm	37 mm	–	0.592 kg
Akku-NiCd 5B	5	89895962	2	151 + 218 mm	139 + 201 mm	37 mm	–	0.726 kg
Akku-NiCd 6A	6	89895963	2	218 mm	201 mm	37 mm	–	0.868 kg
NiCd 4.0 Ah D cells - next to one another								
Akku-NiCd 3B	3	89895976	3	98 mm	40 x 33 mm	65 mm	35 mm	0.400 kg
Akku-NiCd 4B	4	89895977	3	130 mm	40 x 66 mm	65 mm	35 mm	0.560 kg
NiCd 1.5 Ah Cs cells - rod								
Akku-NiCd C 3A	3	89899743	1	162 mm	148 mm	26 mm	–	0.141 kg
Akku-NiCd C 4A	4	89899692	1	205 mm	190 mm	26 mm	–	0.249 kg
Akku-NiCd C 5A	5	89899695	1	247 mm	232 mm	26 mm	–	0.292 kg
Akku-NiCd C 6A	6	89899698	1	290 mm	275 mm	26 mm	–	0.338 kg
NiCd 1.5 Ah Cs cells - rod + rod								
Akku-NiCd C 4C	4	89899694	2	119 mm	104 mm	26 mm	–	0.263 kg
Akku-NiCd C 5C	5	89899697	2	162 + 119 mm	147 + 104 mm	26 mm	–	0.300 kg
Akku-NiCd C 6C	6	89899699	2	162 mm	148 mm	26 mm	–	0.352 kg
NiCd 1.5 Ah Cs cells - next to one another								
Akku-NiCd C 3B	3	89899729	3	148 mm	40 x 96 mm	54 mm	25 mm	0.188 kg
Akku-NiCd C 4B	4	89899693	3	148 mm	40 x 96 mm	54 mm	25 mm	0.246 kg
Akku-NiCd C 5B	5	89899696	3	148 mm	40 x 96 mm	54 mm	25 mm	0.294 kg



Battery pack NiCd 1.5 Ah and 4.0 Ah

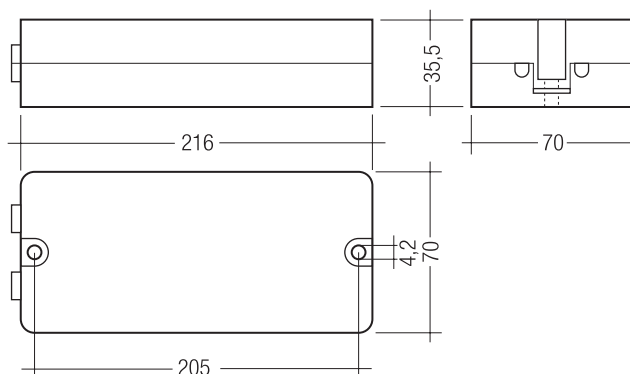
Nickel-cadmium cells (NiCd)

Product description

- High-temperature NiCd battery pack for use with emergency lighting units

Properties

- Good charging properties at high temperature
 - High energy maintenance of the charged battery
 - 4 year life in operation at max. temperature
 - 4-year storage life (in moderate ambient conditions)
 - Casing material made of polycarbonate
 - 1.0 m integrated double-insulated cable
 - 1.0 mm² solid wire
 - Connection: 9 mm stripped, with insulation tape
 - High-quality European manufacturer
 - Complies with IEC 61951-2 (constant charging load test)
 - Suitable for emergency lighting equipment as per IEC 60598-2-22
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Battery voltage per cell	1.2 V
dimensions LxWxH	216 x 70 x 35.5 mm
Battery case temperature (for a life of 4 years)	0 ... +55 °C
Temperature range of battery (NiCd) at tc point	0 ... +40 °C

Ordering data

Type	Number of cells	Article number	Weight
1.5 Ah battery pack			
Pack-NiCd 3C	3	89899676	0.32 kg
Pack-NiCd 4C	4	89899677	0.37 kg
Pack-NiCd 5C	5	89899678	0.42 kg
Pack-NiCd 6C	6	89899679	0.47 kg
4.0 Ah battery pack			
Pack-NiCd 3D	3	89899672	0.58 kg
Pack-NiCd 4D	4	89899673	0.70 kg
Pack-NiCd 5D	5	89899674	0.84 kg
Pack-NiCd 6D	6	89899675	0.98 kg

Packaging: 10 pieces/carton, 240 pieces/pallet



Product matrix, page 306

Standards, page 306



NiMH 2.0 Ah Cs-cells and NiMH 4.0 Ah Cs-cells

Nickel-metal hydride cells (NiMH)

Product description

- High-temperature NiMH cells for use with emergency lighting units

Properties

- Eco-friendly because there is no cadmium
 - Constant high-temperature operation at 55 °C (2.0 Ah) or 45 °C / 50 °C (4.0 Ah) – depending on the emergency lighting unit used
 - Low profile, cross-section 22 mm (without end caps)
 - Good charging properties at high temperature
 - High energy maintenance of the charged battery
 - 4 year life in operation at max. temperature
 - 4-year storage life (in moderate ambient conditions)
 - In various configurations
 - Simple connection with blade terminal
 - With polycarbonate fixing caps and connecting cable
 - Electrical connection with mounted end caps possible
 - High-quality European manufacturer
 - Complies with IEC 61951-2 (constant charging load test)
 - Suitable for emergency lighting equipment as per IEC 60598-2-22
- For product data sheet go to www.tridonic.com, or available on request

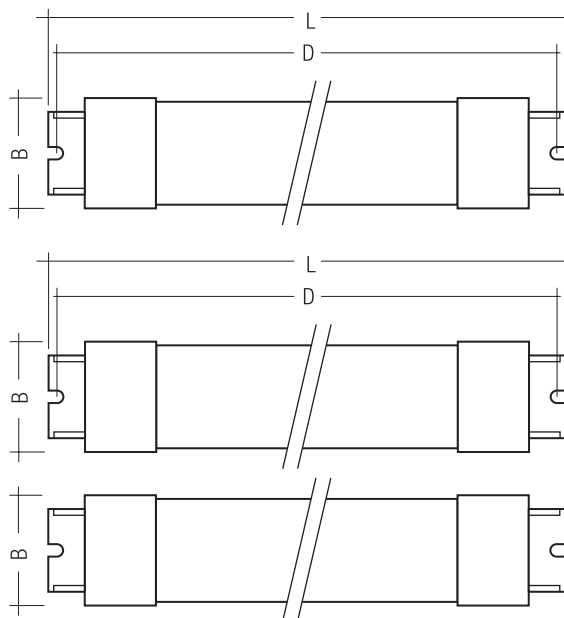


Product matrix, page 306

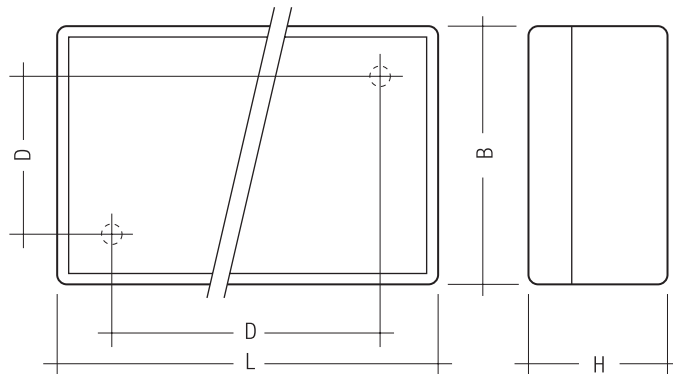
Standards, page 306



Rod



Rod + Rod



Side by side

Technical data

Battery voltage per cell	1.2 V
Battery casing temp. 2.0 Ah Cs (life of 4 years)	0 ... +55 °C
Battery casing temp. 4.0 Ah Cs (life of 4 years)	0 ... +45 / +50 °C depending on the emergency lighting unit used

Ordering data

Number of cells	Type	Type	Article number
NiMH 4.0 Ah Cs cells – rod			
1 x 3	rod	Akku-NiMh 4Ah C 3A	89899854
1 x 4	rod	Akku-NiMh 4Ah C 4A	89899850
1 x 5	rod	Akku-NiMh 4Ah C 5A	89899851
1 x 6	rod	Akku-NiMh 4Ah C 6A	89899852
NiMH 4.0 Ah Cs cells – rod + rod			
3 + 3	rod + rod	Akku-NiMh 4Ah C 6C	89899853
NiMH 2.0 Ah Cs cells – rod			
1 x 2	rod	Akku-NiMh C 2A	89899755
1 x 3	rod	Akku-NiMh C 3A	89899744
1 x 4	rod	Akku-NiMh C 4A	89899700
1 x 5	rod	Akku-NiMh C 5A	89899703
1 x 6	rod	Akku-NiMh C 6A	89899706
NiMH 2.0 Ah Cs cells – rod + rod			
4	rod + rod	Akku-NiMh C 4C	89899702
5	rod + rod	Akku-NiMh C 5C	89899705
3 + 3	rod + rod	Akku-NiMh C 6C	89899707
NiMH 2.0 Ah Cs cells – next to one another			
4	side by side	Akku-NiMh C 4B	89899701
5 x 1	side by side	Akku-NiMh C 5B	89899704

Packaging: 25 pieces/carton, 450 pieces/pallet

Specific technical data

Type	Number of cells	Article number	Image	Length L	Hole spacing D	Width B	Height H	Weight
NiMH 4.0 Ah Cs cells – rod								
Akku-NiMh 4Ah C 3A	3	89899854	1	215 mm	200 mm	25 mm	–	0.234 kg
Akku-NiMh 4Ah C 4A	4	89899850	1	276 mm	260 mm	25 mm	–	0.371 kg
Akku-NiMh 4Ah C 5A	5	89899851	1	336 mm	320 mm	25 mm	–	0.441 kg
Akku-NiMh 4Ah C 6A	6	89899852	1	396 mm	380 mm	25 mm	–	0.512 kg
NiMH 4.0 Ah Cs cells – rod + rod								
Akku-NiMh 4Ah C 6C	6	89899853	2	215 mm	200 mm	25 mm	–	0.529 kg
NiMH 2.0 Ah Cs cells – rod								
Akku-NiMh C 2A	2	89899755	1	119 mm	104 mm	26 mm	–	0.156 kg
Akku-NiMh C 3A	3	89899744	1	162 mm	148 mm	26 mm	–	0.204 kg
Akku-NiMh C 4A	4	89899700	1	205 mm	190 mm	26 mm	–	0.258 kg
Akku-NiMh C 5A	5	89899703	1	247 mm	232 mm	26 mm	–	0.307 kg
Akku-NiMh C 6A	6	89899706	1	290 mm	275 mm	26 mm	–	0.363 kg
NiMH 2.0 Ah Cs cells – rod + rod								
Akku-NiMh C 4C	4	89899702	2	119 mm	104 mm	26 mm	–	0.358 kg
Akku-NiMh C 5C	5	89899705	2	162 + 119 mm	147 + 104 mm	26 mm	–	0.308 kg
Akku-NiMh C 6C	6	89899707	2	162 mm	148 mm	26 mm	–	0.368 kg
NiMH 2.0 Ah Cs cells – next to one another								
Akku-NiMh C 4B	4	89899701	3	148 mm	40 x 96 mm	54 mm	25 mm	0.255 kg
Akku-NiMh C 5B	5	89899704	3	148 mm	40 x 96 mm	54 mm	25 mm	0.308 kg

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Multi-sensor for DALI system	
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IR SMART Controller	page 384
DALI-RC	page 384
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DALI Somfy animeo interface	page 401
DALI actuator	
DALI control module for 3 relays	
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DSI sensors**Ambient light sensor and motion detector for constant lighting control**

DSI-SMART PTM page 405

IR Smart Controller (accessories) page 406

DSI-SMART Programmer (accessories) page 407

**Control module for combining with ambient light sensor,
switch or motion detector**

smartDIM SM Ip page 408

smartDIM sensor 1 (accessory for SM) page 409

smartDIM sensor 2 (accessory for SM) page 410

DSI control modules**Control and lighting regulation module for 3 DSI channels**

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modularDIM LC (accessory for Basic) page 414

Control module with input for infra-red receiver and one-way switch

DSI-IR page 415

DSI-2IR page 416

IRS / IRED (accessory for DSI-IR + DSI-2IR) page 417

Control module for amplifying DSI signals and switch input

DSI-V/T page 418

DSI interface**Converter for 1...10 V to DSI signals**

DSI-A/D page 420

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Converter for EIB- to DSI signals

DSI-EIB page 422

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DSI actuator**Leading-edge and trailing-edge phase dimmers 40-1,000 VA with preset**

DSI-PCD/S page 424

Relay module for switching ohmic loads

DSI-RK page 425

Sensors**Light sensor for constant lighting control**

Smart-LS II / Smart-LS II Ip page 132

Automatic switching depending on presence and light value

Smart SWITCH II page 426

Wiring diagrams and installation examples page 427

Product / function matrix

System	Category	Type	Page	Manual dimming	Presets / scenes	Motion detection	Daylight control / ambient light control	Remote control	Automatic scene control (sequence)	Time-controlled daily processes (scheduler)	Type of mounting: build-in	Type of mounting: surface-mount	Switching contact	SMART Interface
DALI	DALI sensor	DALI MSensor	page 382		•	•	•	•			•	•		
	DALI control modules	DALI GC/GC-A	page 385	•							•			
		DALI SC/SC-A	page 386		•						•			
		DALI MC	page 387	•	•				•		•			
		DALI TOUCHPANEL	page 388	•	•							•		
		x-touchBOX	page 389	•	•				•	•		•		
		x-touchPANEL	page 390	•	•				•	•		•		
		DALI SQM	page 391						•		•			
DSI	DSI sensors	NEW DSI-SMART PTM	page 405	•		•	•				•	•		
		smartDIM SM Ip	page 408	•		•	•				•		•	
	DSI control modules	modularDIM	page 411	•	•	•	•				•			
		DSI-IR/2IR	page 415	•	•			•			•			
		DSI-V/T	page 418	•	•						•	•		
Sensors		Smart SWITCH II	page 426			•					•		•	
		Smart-LS II	page 132				•				•			•

luxCONTROL lighting control systems

Intelligent lighting control

The right light in the right amount at the right place – this saves energy and creates an individual level of lighting comfort that promotes a feeling of well-being. luxCONTROL components from Tridonic provide the basis for innovative and tailor-made lighting solutions in which maximum energy efficiency is combined with optimum functionality for the specific application. luxCONTROL represents the next generation of lighting management for modern lighting systems with daylight-dependent control, spectacular lighting moods and impressive colour chases.

Intelligent luxCONTROL systems are characterised by the optimum interplay of controller, sensors, controls, electronic ballasts and lamps. They are perfectly tailored to work with digital dimmable PCA EXCEL one4all Ip, PCA EXCITE und PCA ECO ballasts, TE one4all electronic transformers, digital PCI FOX ballasts, TALEX converters for LED modules and EM PRO emergency lighting units.

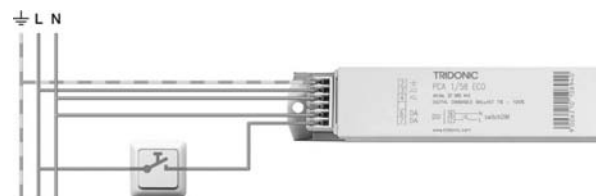
Task-specific lighting management

With luxCONTROL all the lighting tasks are performed with the versions that are ecologically, economically and functionally the most attractive. Integrated solutions enable manufacturers to produce cost-effective energy-saving luminaires. Lighting planners and installers can use the right configuration based on an extensive range of equipment to suit the specific task and the required lighting design.

Tried and tested DSI technology (Digital Serial Interface) and the DALI interface protocol (Digital Addressable Lighting Interface) offer impressive flexibility – from individual intelligent luminaires and large room installations to lighting concepts for buildings that can even be linked to emergency lighting systems to provide a total package.

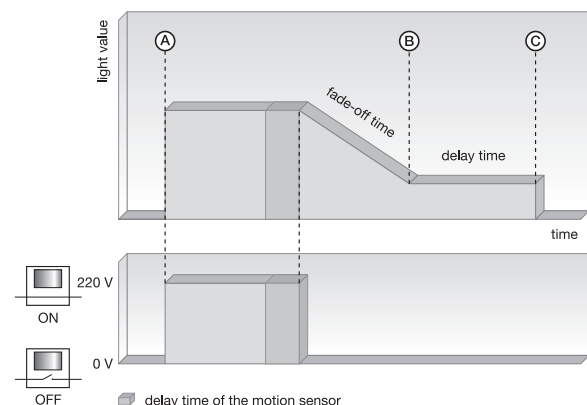
Ballasts from Tridonic: the simplest form of lighting management

switchDIM applications use the mains voltage as the control signal for the digital dimmable ballasts from Tridonic. This is the simplest form of lighting management, which makes switchDIM uncomplicated, cost-effective and extremely user-friendly. Only simple conventional mains voltage switches are therefore needed to dim and switch the lighting system from several locations. For more information go to page 90.



Safe passage with integrated corridorFUNCTION

In presence-controlled lighting systems the corridorFUNCTION integrated in dimmable ballasts from Tridonic provides a new level of energy efficiency, safety and comfort. Instead of being switched-off abruptly if no movement is detected in stairwells, corridors, underground car parks or entrance halls, the lighting is dimmed to a low level and then switched-off after a delay of one minute. As soon as someone enters the room the light is switched back up to its full level.



corridorFUNCTION – huge benefits in terms of energy efficiency, safety and comfort. Within a user-definable time window (fade-off time) the lighting is dimmed to a low level (B) and switched-off after a certain dwell time (C). Alternatively the lighting can remain at this low background level.

SMART sensors – elements of a cost-effective constant lighting solution

Simple, cost-effective and energy-efficient constant lighting systems can be produced on the basis of digital dimmable PCA EXCEL one4all and PCA ECO ballasts. SMART sensors, which are connected to the ballasts via the Tridonic SMART Interface, register the available ambient light or the presence of a person in the room. The level of light can be regulated to a user-defined constant light value or the luminaire can be switched-off if there is no-one in the room.

The compact components are easy to integrate, enabling luminaire manufacturers to offer products with added intelligence without having to compromise on the freedom of optimum design. Further control inputs on the ballast enable the luminaires to be integrated in a complete lighting system.

DSI – simply functional

To optimise the energy consumption of extensive groups of luminaires, for example in sports stadiums or factories, there are solutions based on the modularDIM system and the DSI digital interface. The attractive functions of a DSI lighting management system include simple programming of scenes and the option of common routing of the control line and mains power supply cabling in one duct. Digital transmission means no problems of interference and an identical dimming value for all the luminaires.

DALI – the established standard

DALI enables up to 64 digital dimmable ballasts with one4all interfaces to be individually addressed on a single line, 16 groups to be assigned and 16 lighting scenes to be programmed. Regrouping is possible at any time without the need for costly rewiring, for example after renovation or a change of function for a room.

With individual addressability and status feedback, the DALI-based comfortDIM lighting control systems not only offer top-quality monitoring functions but

also open up new opportunities for developing high-quality lighting solutions because the various parameters can be easily programmed. With comfortDIM it is also possible for external systems such as louvre blind controllers to be integrated in the overall concept.

Other functions that have been implemented by Tridonic in ballasts with one4all interfaces and that go beyond the DALI standard contribute to greater lighting comfort and even greater energy savings.

Networked solutions

The software-based lighting management solution winDIM@net from Tridonic combines standardised DALI technology with the tried and tested TCP/IP internet protocol. This means that the lighting control system can be fully integrated in a building management system so everything can be controlled centrally with just one system.

Intelligent emergency lighting system

Compact emergency lighting systems for up to 120 individually addressable DALI emergency lighting units are easily implemented with e-touch. The status report for the emergency lighting system can be retrieved locally via an infra-red interface or in a networked installation with EM LINK software (available free of charge) via a standard web browser (TCP/IP).

Technical Information

The latest technical information can be downloaded from the internet: www.tridonic.com, menu “Technical Information”, submenu “Data sheets”

Personal enquiries

A form for personal enquiries is available on the internet at www.tridonic.com, menu “Contact”, submenu “Enquiry”



DALI MSensor

Multi-sensor for DALI system

Product description

- Component of the comfortDIM system (DALI standalone)
- With ambient light dependent control and motion detection
- Simple group assignment via rotary switch
- Multiple MSensors possible in a group
- Can be remote controlled
- Lighting control and motion detection can be deactivated
- Individual adjustment of the parameters with configuration software
- Multi-master compatible: Multiple control modules are possible in a DALI system
- Power supply via DALI line

→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

Supply via	DALI cable
Current draw	6 mA from DALI
Operating temperature	0 ... +50 °C
Storage temperature	-25 ... +55 °C
Type of protection	IP20



Product matrix, page 379

Wiring diagrams and installation examples, page 427

Fig. 1

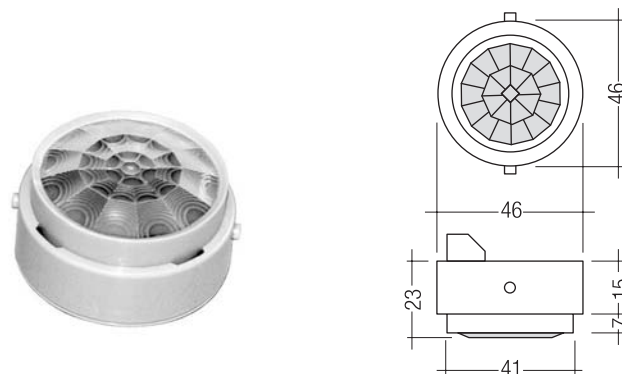


Fig. 2

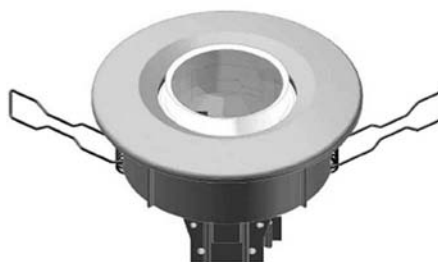


Fig. 3

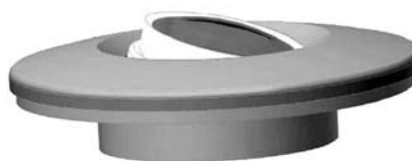
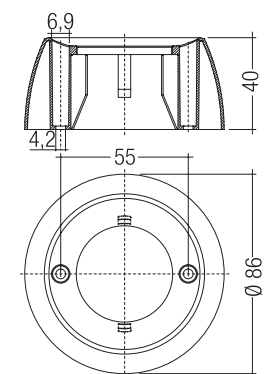
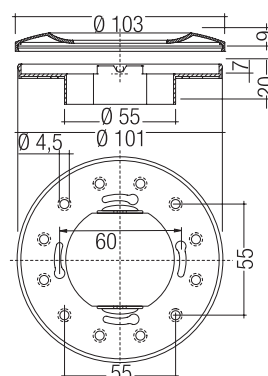
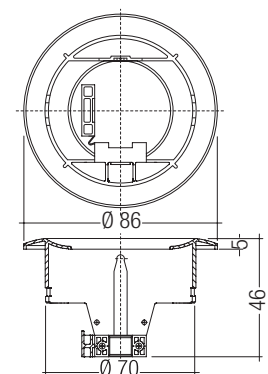


Fig. 4



Ordering data

Fig.	Mounting	Type	Article number
1	Luminaire installation	DALI-MSensor integrated	86458265
2	Ceiling installation	DALI-MSensor remote ceiling	86458267
3	Box installation	DALI-MSensor in wall	86458268
4	Surface mounting	DALI-MSensor remote surface	86458269

Packaging: 1 pieces/carton

Specific technical data

Type	Detection						
	Ø of detection range, mounted at a height of 2.5 m	Extension of the detection area ^①	Swivel design	Swivel range	Detection angle	Light measurement at the sensor head ^②	Infra-red control range
DALI-MSensor integrated	5 m	–	no	0°	360°	10 – 650 lx	5 m
DALI-MSensor remote ceiling	5 m	2 m	yes	±15°	360°	10 – 650 lx	5 m
DALI-MSensor in wall	5 m	2 m	yes	±15°	360°	10 – 650 lx	5 m
DALI-MSensor remote surface	5 m	–	no	0°	360°	10 – 650 lx	5 m

^① If mounted at a height of 2.5 m and swivelled through 15 °

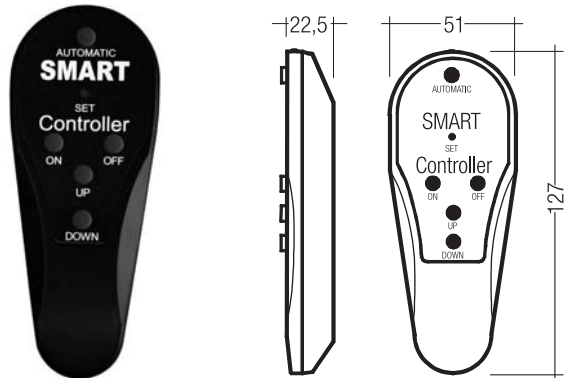
^② The measured value at the sensor head corresponds to approx. 15 to 2000 lux on the surface measured

ACCES-
SORIES

IR-SMART Controller

Product description

- Optional infra-red remote control
- Switching on and off (On/Off button)
- Dimming (Up/Down button)
- Activation of automatic lighting control
- Setting the threshold control point (Set button)



Ordering data

Type	Article number
DSI-SMART Controller	86451922

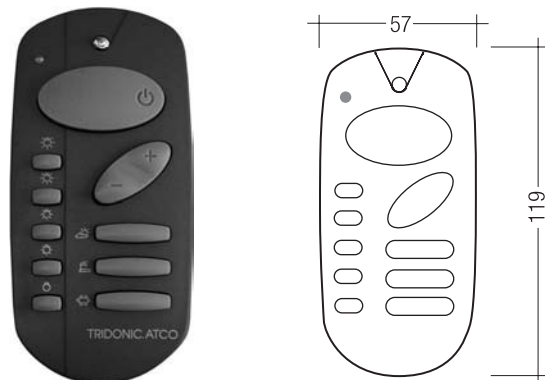
Packaging: 1 pieces/carton

ACCES-
SORIES

DALI RC

Product description

- Optional infra-red remote control and programming unit for DALI MSensor
- For programming the operating parameters of the DALI MSensor
- With wall bracket
- Switching on and off (On/Off button)
- Dimming (Up/Down button)
- Activating automatic lighting control (sun/cloud button)
- Calling up two scenes
- Calling up five fixed light output values (100, 50, 25, 12 and 6 %)
- Individual adjustment of the button assignments with configuration software



Ordering data

Type	Article number
DALI-RC	86458263

Packaging: 1 pieces/carton



DALI GC / DALI GC-A

Control module for 2 DALI groups

Product description

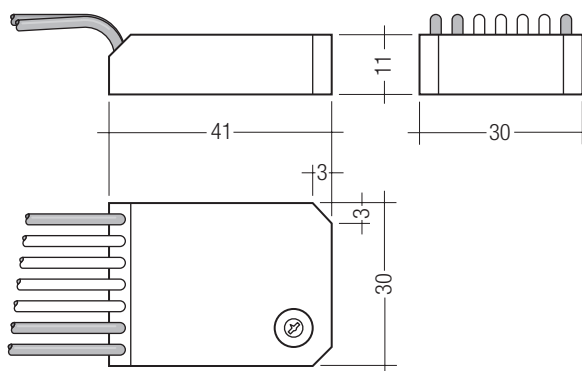
- Control module for standard switch
- For sending dimming and switching commands to two DALI groups
- 2 switch inputs
- DALI GC only: DALI devices can be addressed and assigned by means of a simple key sequence
- Rotary switch for selecting groups 1 – 16 or „broadcast“
- Multi-master compatible: Multiple control modules are possible in a DALI system
- Power supply via DALI line

Note

- Wires to switches must not be extended
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Supply via	DALI cable
Current draw	6 mA from DALI
Input, 2 switches	1-way / 2-way
Output	DALI
Ambient temperature ta	0 ... +50 °C
Type of protection	IP20



Ordering data

Type	Article number
DALI GC	24033450
DALI GC-A	24138907

Packaging: 1 pieces/carton



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DALI SC / DALI SC-A

Control module for 4 DALI lighting scenes

Product description

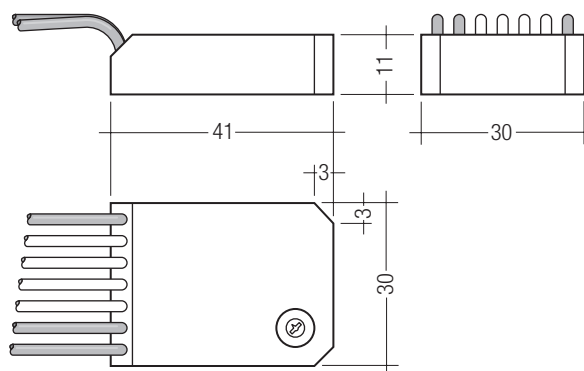
- Control module for standard switch
- For calling up lighting scene values in DALI devices
- 4 switch inputs
- DALI SC only: Lighting scene values in DALI devices can be programmed by means of a simple key sequence
- Rotary switch for selecting 4 DALI scenes 1 – 16
- Multi-master compatible: Multiple control modules are possible in a DALI system
- Power supply via DALI line

Note

- Wires to switches must not be extended
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Supply via	DALI cable
Current draw	6 mA from DALI
Input, 4 switches	single
Output	DALI
Ambient temperature t_a	0 ... +50 °C
Type of protection	IP20



Ordering data

Type	Article number
DALI SC	24034263
DALI SC-A	24138906

Packaging: 1 pieces/carton



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DALI MC

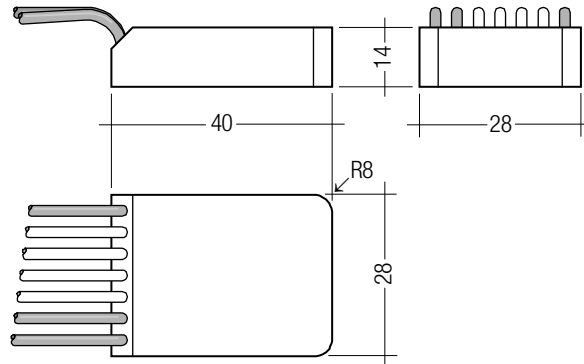
Control module with 4 freely programmable inputs

Product description

- Control module with 4 inputs
 - User-definable switching modes
 - Each input can be individually set
 - Objective: Setting individual addresses 1 – 64, groups 1 – 16 or „broadcast“
 - Multi-master compatible: Multiple control modules are possible in a DALI system
 - Sequencer for 4 scenes
 - Stairwell function with 2 dimming levels
 - Power-up function for sending a preset command after a delay
 - Power supply via DALI line
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Supply via	DALI cable
Current draw	6 mA from DALI
Input	4 switches or relays
Output	DALI
Ambient temperature t_a	0 ... +50 °C
Type of protection	IP20



Ordering data

Type	Article number
DALI MC	86458507

Packaging: 1 pieces/carton



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DALI TOUCHPANEL

Operating and control unit

Product description

- Control panels and controllers for DALI systems
 - For controlling multiple luminaire groups and calling up preset lighting scenes
 - Flexible design: different coloured frames, individual control panel
 - Multi-master compatible: Multiple control modules are possible in a DALI system
 - Power supply via DALI line
 - Individual adjustment of the control panel and button assignments with configuration software
 - Setting group addresses 1 – 16 or „broadcast“
 - Setting scene addresses 1 – 16
- For product data sheet go to www.tridonic.com, or available on request

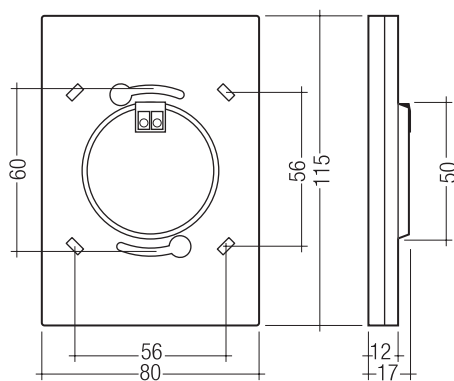
Technical data

Supply via	DALI cable
Current draw	2 mA (max. 10 mA im service mode)
Output	DALI
Ambient temperature ta	0 ... +50 °C
Type of protection	IP20



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Ordering data

Type	Article number
DALI TOUCHPANEL white	24035465

Packaging: 1 pieces/carton

ACCES-
SORIES

Silver frame to DALI TOUCHPANEL

Ordering data

Type	Article number
FRAME SILVER TO DALI TOUCHPANEL	24138753

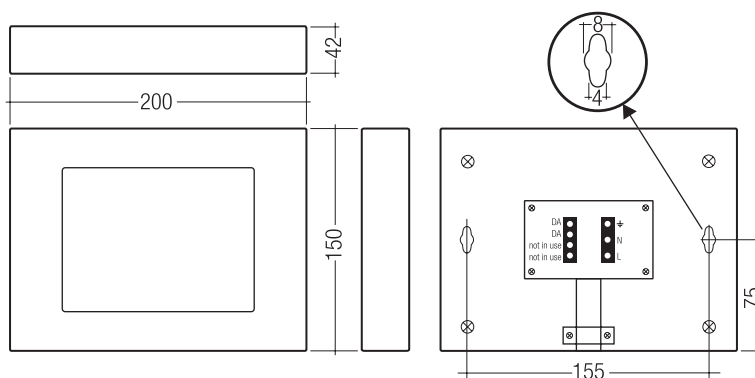


x-touchBOX

Operating and control unit

Product description

- Lighting management system for up to 64 DALI ECG
 - Start-up, control and operating unit
 - Colour touch screen (5.7")
 - Manual dimming and switching
 - Manual scene recall or timed scene recall with a maximum of 99 sequences
 - Weekday-controlled sequence programming (schedule)
 - User-defined labelling of scenes, groups, sequences and schedules
 - Optimised mode for RGB coloured light management
 - Software updates with PC via IrDA interface
 - Integrated DALI bus supply
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	110 – 240 V
Mains frequency	50 / 60 Hz
Power	10 W
Output	1 DALI line
Max. output current, DALI	200 mA
Ambient temperature t_a	0 ... +50 °C
dimensions LxWxH	200 x 150 x 42 mm
Distance between mounting holes (D)	155 mm
Type of protection	IP20

Ordering data

Type	Article number
x-touchBOX	24138954

Packaging: 1 pieces/carton

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Specific technical data

Type	Size	Touchpanel	Colours	Interface
x-touchBOX	5,7"	320 x 240	256	IrDA



x-touchPANEL

Operating and control unit

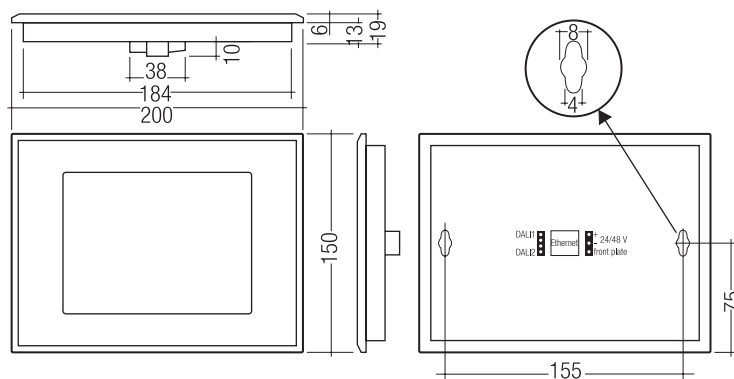
Product description

- Lighting management system with up to 128 DALI ECG
- Start-up, control and operating unit
- Colour touch screen (5.7")
- Background lighting with RGB LEDs
- Manual dimming and switching
- Manual scene recall or timed scene recall with a maximum of 99 sequences
- Weekday-controlled sequence programming (schedule)
- User-defined labelling of scenes, groups, sequences and schedules
- Optimised mode for RGB coloured light management
- Software updates with PC via IrDA interface or Ethernet
- Operation via a web browser (Ethernet)

→ For product data sheet go to www.tridonic.com, or available on request

Technical data

Rated supply voltage DC	24 – 48 V (mains adapter included)
Current draw	2 mA from DALI
Output	2 DALI lines
Ambient temperature t_a	0 ... +50 °C
dimensions LxWxH	200 x 150 x 20 mm
Distance between mounting holes (D)	155 mm
Type of protection	IP20



Ordering data

Type	Article number
x-touchPANEL	24138990

Packaging: 1 pieces/carton



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Specific technical data

Type	Touchpanel			Interface	Mains adapter	
	Size	Pixel	Colours		Rated supply voltage	Rated frequency, mains adapter
x-touchPANEL	5,7"	320 x 240	256	Ethernet, IrDA	230 / 240 V	50 / 60 Hz



DALI SQM

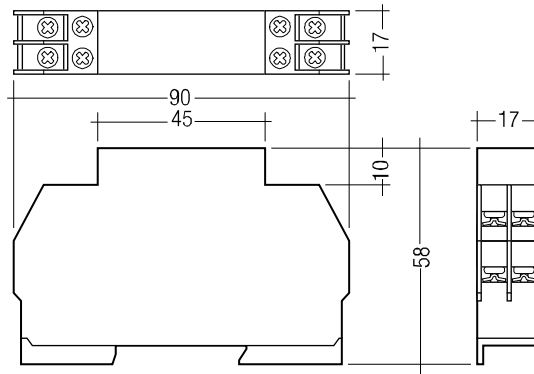
Sequencer module for DALI systems

Product description

- Sequencer module for DALI systems
 - Continual transmission of DALI signals (step time)
 - Calling up scenes 0 – 15
 - End scene programmable
 - Power supply via DALI line
 - Rotary switch: 1 s to 30 min
 - For installation in switching cabinets
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Supply via	DALI cable
Current draw	9 mA from DALI
Input	Rotary switch, 1 s – 30 min. Function switch: max. cable length 100 m
Output	DALI
Ambient temperature ta	0 ... +50 °C
Type of protection	IP20



Ordering data

Type	Article number
DALI SQM	86458211

Packaging: 1 pieces/carton



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DALI PS

DALI power supply for installation in switch cabinet

Product description

- For supplying 200 mA for DALI devices or control modules without their own power supplies
 - For installation in switching cabinets
- For product data sheet go to www.tridonic.com, or available on request

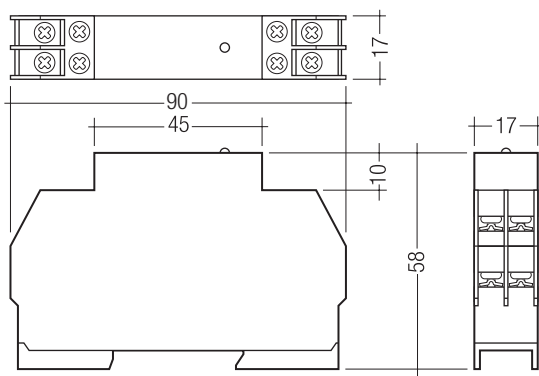
Technical data

Rated supply voltage	120 – 240 V
Mains frequency	50 / 60 Hz
Power	4 W
Output	DALI
Max. output current, DALI	200 mA
Ambient temperature t_a	0 ... +50 °C
Type of protection	IP20



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Ordering data

Type	Article number
DALI PS	24033444

Packaging: 1 pieces/carton



NEW

DALI PS2

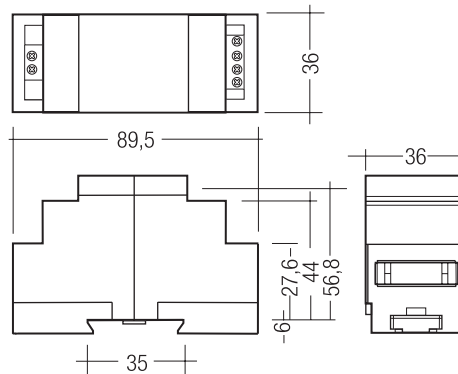
DALI power supply for installation in switch cabinet

Product description

- For supplying 240 mA for DALI devices or control modules without their own power supplies
 - For installation in switching cabinets
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Power	5 W
Max. output current, DALI	240 mA
Operating temperature	0 ... +50 °C
Storage temperature	0 ... +70 °C
Type of protection	IP20



Ordering data

Type	Article number
DALI PS2	86458559

Packaging: 1 pieces/carton



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NEW

DALI PS2 standby

DALI power supply for installation in switchgear cabinets and standby function

Product description

- For supplying 240 mA for DALI devices or control modules without their own power supplies
 - For installation in switching cabinets
 - Automatic monitoring of the connected luminaires
 - The built-in relay isolates the connected equipment from the power supply via an external contactor if all the luminaires are switched off
 - The ballasts are switched on and set to the required status via DALI commands
- For product data sheet go to www.tridonic.com, or available on request

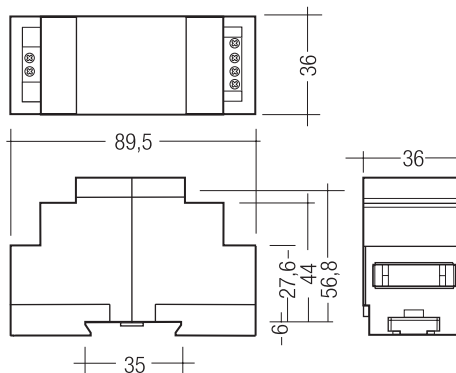
Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Power	5 W
Max. output current, DALI	240 mA
Operating temperature	0 ... +50 °C
Storage temperature	0 ... +70 °C
Type of protection	IP20



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Ordering data

Type	Article number
DALI PS2 Standby	86458560
Packaging: 1 pieces/carton	

Specific technical data

Type	Output, relay	
	Max. switching voltage AC	Max. switching current
DALI PS2 Standby	250 V	1 A



DALI PS1

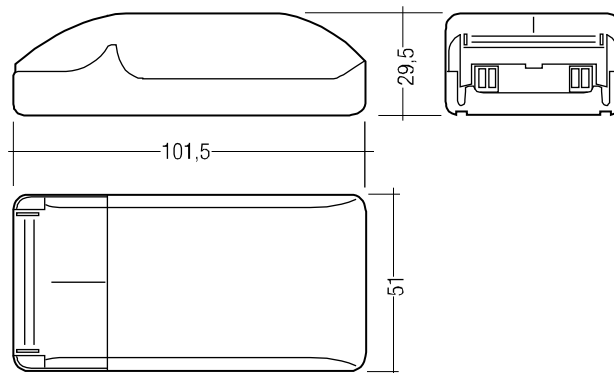
DALI power supply for separate installation

Product description

- For supplying 200 mA for DALI devices or control modules without their own power supplies
 - Surface-mounted casing
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Rated supply voltage	120 – 240 V
Mains frequency	50 / 60 Hz
Power	4 W
Output	DALI
Max. output current, DALI	200 mA
Ambient temperature t_a	0 ... +50 °C
Type of protection	IP20



Ordering data

Type	Article number
DALI PS1	24034323

Packaging: 1 pieces/carton



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DALI USB

Interface module for DALI systems

Product description

- Interface module from USB to a DALI system
 - For connecting Tridonic software tools
 - Addressing, programming and parametrising DALI installations and Tridonic devices
 - Power supply via DALI line and USB interface
- For product data sheet go to www.tridonic.com, or available on request

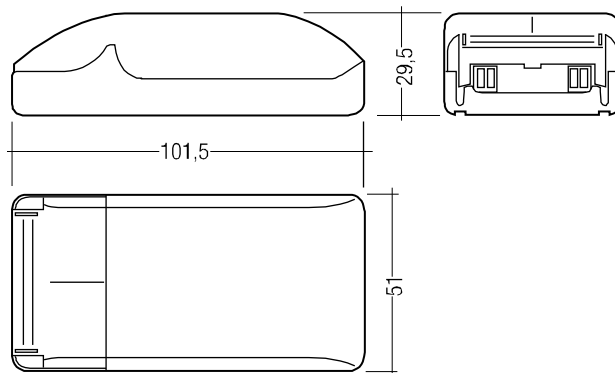
Technical data

Supply via	DALI cable and USB interface
Current draw	6 mA from DALI
Input	1 USB (Personal Computer)
Output	DALI
Ambient temperature t_a	0 ... +50 °C
Type of protection	IP20



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Ordering data

Type	Article number
DALI USB	24138923

Packaging: 1 pieces/carton



DALI DSI

Converter for DALI into DSI signals

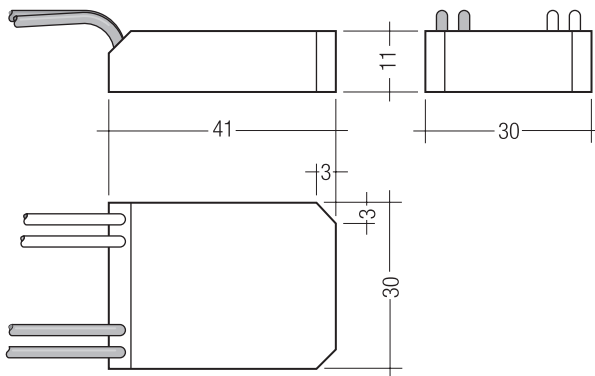
Product description

- Converter for converting DALI signals into DSI signals
 - For integrating DSI-based devices in DALI lighting control systems
 - Rotary switch for assigning the group address for the DSI output
 - 1 DSI output for a maximum of 5 DSI devices
 - Power supply via DALI line
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Supply via	DALI cable
Ambient temperature t_a	0 ... +50 °C
Type of protection	IP20



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Ordering data

Type	Article number
DALI DSI	24034689

Packaging: 1 pieces/carton

Specific technical data

Type	Inputs			Outputs	
	DALI control input	Current draw	Number of DALI addresses	Digital control line DSI	Control output per physical output (devices)
DALI DSI	1	16 mA from DALI	1	1	5



DALI DSI II

Converter for DALI into DSI signals

Product description

- Converter for converting DALI signals into DSI signals
 - For integrating DSI-based devices in DALI lighting control systems
 - 1 DALI input, 2 DSI outputs
 - A DALI address can be assigned to each DSI output
 - Rotary selector switch for assigning two group addresses for the two DSI outputs
 - 25 DSI devices can be controlled per output
 - Integrated power supply
- For product data sheet go to www.tridonic.com, or available on request



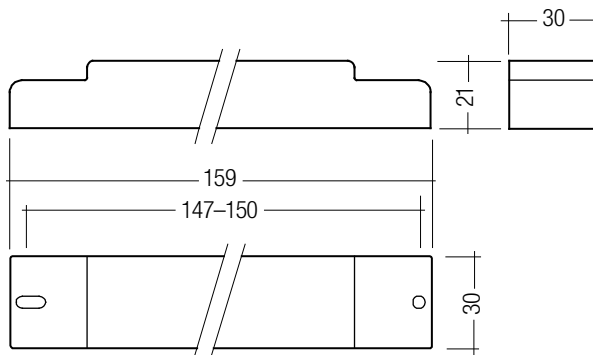
Technical data

Rated supply voltage	120 – 277 V
Mains frequency	50 / 60 Hz
Power	< 1 W
Ambient temperature t_a	0 ... +60 °C
Protection class	IP20



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Ordering data

Type	Article number
DALI-DSI II	86458691

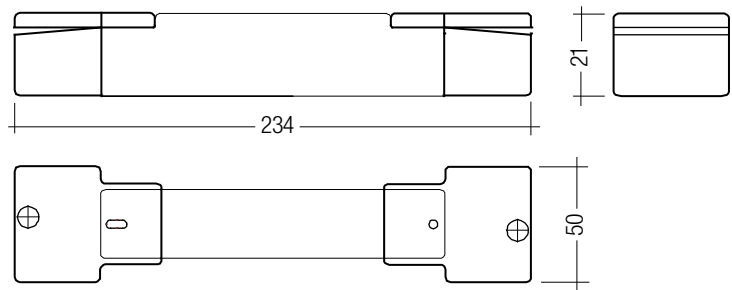
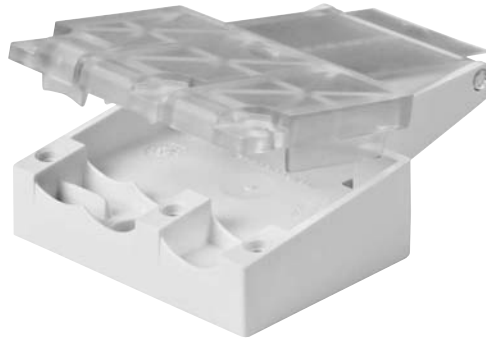
Packaging: 1 pieces/carton, 10 pieces/carton

Specific technical data

Type	Inputs			Outputs		
	DALI control input	Current draw	Number of DALI addresses	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm ²
DALI-DSI II	1	2 mA from DALI	2	2	25	250 m

ACCES-
SERIES

Strain-relief set



Ordering data

Type	Article number
Strain-relief set	86458689



DALI Repeater

Extension of DALI cable length

Product description

- For amplifying the DALI signal
- For extending the DALI line length from 300 to 600 m
- A star-type network with multiple DALI repeaters can be set up
- Power supply via DALI line
- For installation in switching cabinets

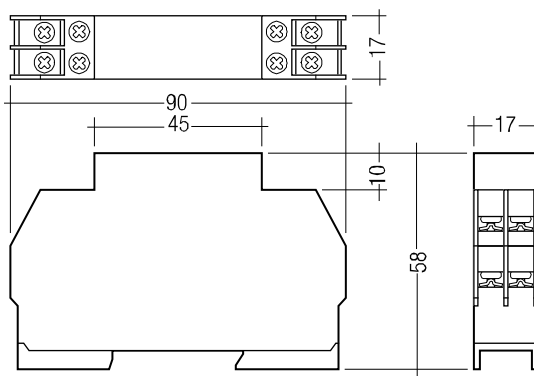
Note

- Because of the signal delay it is not possible to connect multiple DALI repeaters in series (no cascading)
- There is no increase in the maximum number of DALI units.
A maximum of 64 DALI addresses can be configured in a DALI circuit (main and subordinate circuit)
- Because of the electrical isolation between the main circuit and the subordinate circuit an additional DALI power supply unit is needed for each DALI repeater

→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

Supply via	DALI cable
Current draw for main control circuit (IN)	6 mA from DALI
Current draw for subordinate control circuit (OUT)	4 mA from DALI
Input	DALI
Output	DALI
Operating temperature	0 ... +50 °C
Storage temperature	-20 ... +70 °C
Type of protection	IP20



Ordering data

Type	Article number
DALI Repeater	86458401
Packaging: 1 pieces/carton	



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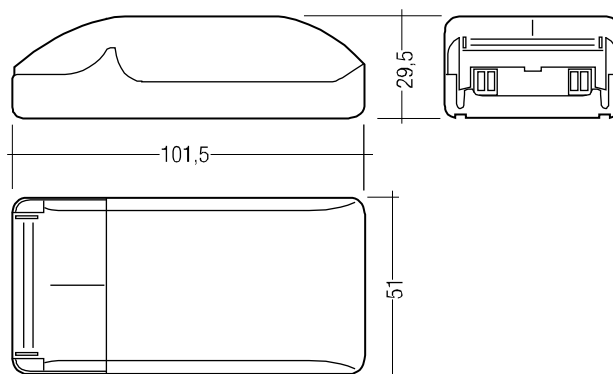


DALI Somfy animeo interface

Control module for Somfy motor control unit

Product description

- For integrating Somfy animeo IB+ motor controllers in the DALI circuit
 - Lighting moods and louvre blind positions can be recalled together
 - For animeo IB+ 4 AC motor controller (1860049, 1860081, 1860103, 1860108), animeo IB+ 4 DC motor controller (1860086), animeo IB+ 4 DC/DC-E motor controller (1860087)
 - Compatible with DALI GC-A, DALI SC and SC-A, DALI MC, DALI TOUCHPANEL, DALI USB, x-touchBOX (Version 3.00 and higher) and x-touchPANEL (Version 3.00 and higher)
 - For 4 louvre blinds (4 DALI addresses therefore required)
 - Support for 16 DALI groups and 16 DALI scenes
 - Louvre blind is started up (e.g. travel) via the Somfy animeo IB+ motor controller
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Power	4 W
Operating temperature	0 ... +50 °C
Storage temperature	-20 ... +70 °C
Type of protection	IP20

Ordering data

Type	Article number
DALI-Somfy animeo Interface	86458491
Packaging: 1 pieces/carton	

→ **Product matrix**, page 379

Wiring diagrams and installation examples, page 427

Specific technical data

Type	Inputs			Outputs	
	DALI control input	Current draw	Number of DALI addresses	Control output	Output, maximum number of controllable motors
DALI-Somfy animeo Interface	1	6 mA from DALI	4 (one per motor)	Somfy motor controller protocol	4



DALI 3-RM-C

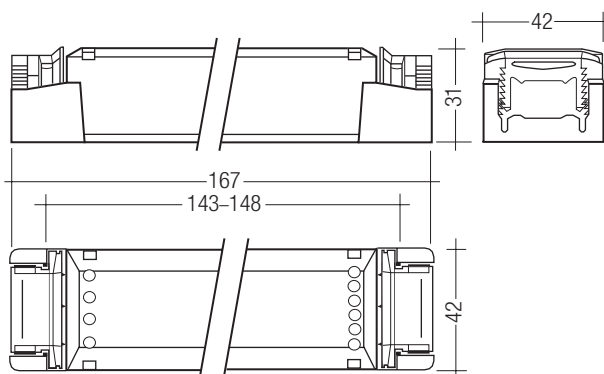
DALI control module for 3 relays

Product description

- Control of up to three standard 24 V DC contactors
 - 1 DALI address per output
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Rated supply voltage, AC	198 – 254 V
Rated supply voltage, DC	200 – 240 V
Mains frequency	0 / 50 / 60 Hz
Power	< 30 W
Ambient temperature t_a	-25 ... +45 °C
Type of protection	IP20



Product matrix, page 379

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Ordering data

Type	Article number
DALI 3-RM-C	86458247

Packaging: 1 pieces/carton, 10 pieces/carton

Specific technical data

Type	Inputs			Outputs	
	DALI control input	Current draw	Number of DALI addresses	Output voltage, DC	Output power
DALI 3-RM-C	1	2 mA from DALI	3	3 x 24 V	25 W



DALI PCD 300 one4all

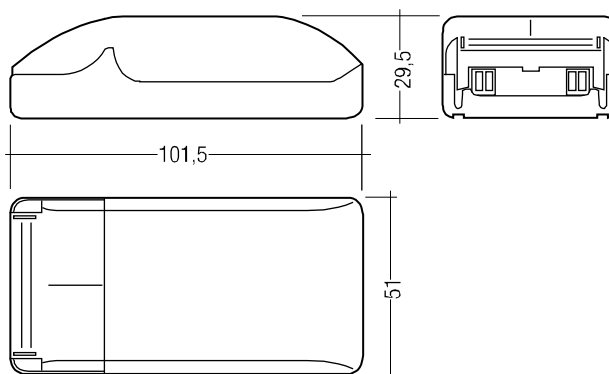
Leading-edge/trailing-edge phase dimmer

Product description

- Digital leading-edge and trailing edge phase dimmers
 - Total connected load: 30 – 300 VA
 - one4all input: DALI, DSI and switchDIM input
 - 1 dimmed phase (output)
 - With automatic load detection
 - Surface-mounted casing
 - Status LED for indicating the operating status
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Connected load	30 – 300 VA
Power loss	0.75 W (1.8 W at full load)
Ambient temperature t_a	0 ... +50 °C
Type of protection	IP20



Ordering data

Type	Article number
DALI-PCD 300 one4all	86458303

Packaging: 20 pieces/carton

Specific technical data

Type	Inputs			Outputs			Terminals
	Input, DALI/DSI control input and switchDIM	Current draw	Number of DALI addresses	Dimmed phase	Control range, DSI	Control range, DALI	
DALI-PCD 300 one4all	1	2 mA from DALI	1	1	0; 1 – 100 %	0; 0.1 – 100 %	0.5 – 1.5 mm ²



DALI PCD/S

Leading-edge/trailing-edge phase dimmer

Product description

- Digital leading-edge and trailing edge phase dimmers
- Total connected load: 40 – 1000 VA
- DALI/DSI input
- Single (switchDim) or double switch input
- Preset function: storage and retrieval of any lighting value
- 1 dimmed phase (output)
- With automatic load detection
- For installation in switching cabinets
- Status LED for indicating the operating status

→ For product data sheet go to www.tridonic.com,
or available on request

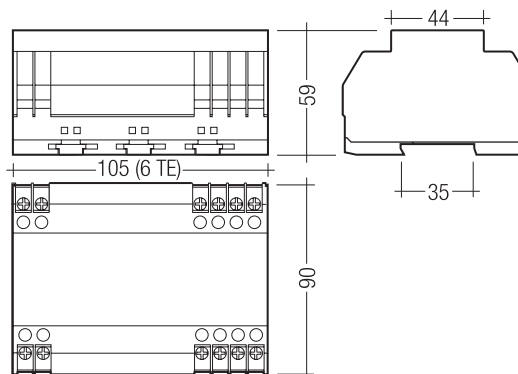
Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Connected load	40 – 1,000 VA
Power loss	2 W (15 W at full load)
Ambient temperature t_a	0 ... +40 °C
Type of protection	IP20



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Ordering data

Type	Article number
DALI-PCD/S	22154332

Packaging: 1 pieces/carton

Specific technical data

Type	Inputs					Outputs		Terminals
	Switch input for preset retrieval	Single or twin push to make switches	DALI/DSI control input	Current draw	Number of DALI addresses	Dimmed phase	Control range, output	
DALI-PCD/S	1	1	1	2 mA from DALI	1	1	0; 1 – 100 %	0.75 – 2.5 mm ²



NEW

DSI-SMART PTM

Ambient light sensor and presence detector for constant light control

Product description

- Ambient light sensor with motion detector
 - Switch input for on/off switching and dimming
 - 3 different casing versions
 - For 4 or 25 DSI ballasts
 - Functions can be configured with the DSI-SMART programmer
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Operating temperature	0 ... +60 °C
Storage temperature	-25 ... +60 °C
Type of protection	IP20

Fig. 1

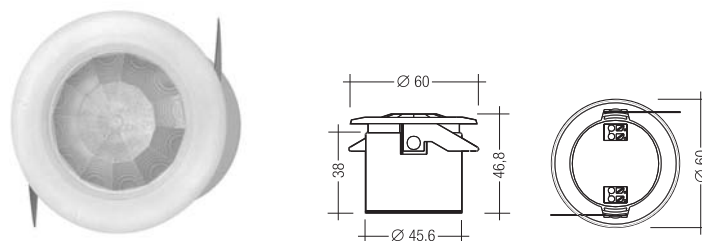
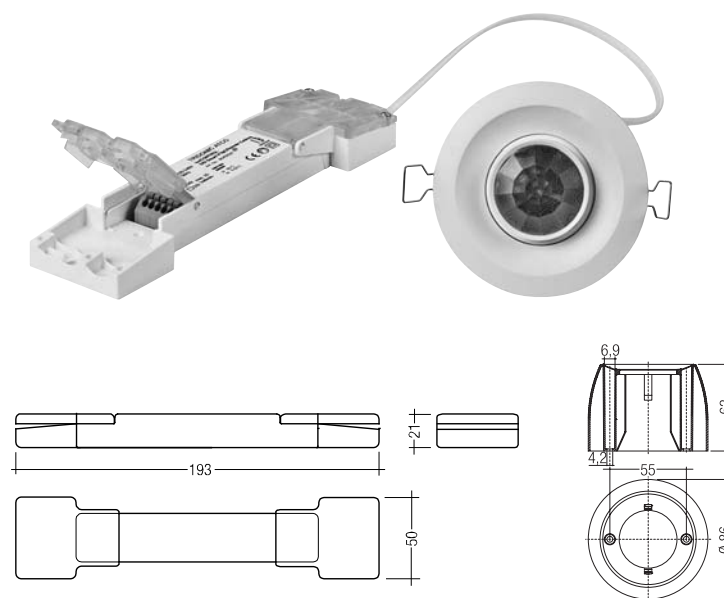


Fig. 2



Fig. 3



Ordering data

Fig.	Mounting	Type	Article number
1	Luminaire installation	DSI-SMART PTM integrated	86458588
2	Surface mounting	DSI-SMART PTM remote surface	86458589
3	Ceiling installation	DSI-SMART PTM remote ceiling	86458587

Packaging luminaire installation casing: 10 pieces/carton

Packaging surface-mounted casing: 1 pieces, 10 SinglePackages/Carton

Packaging ceiling installation casing: 1 pieces, 10 SinglePackages/Carton

Specific technical data

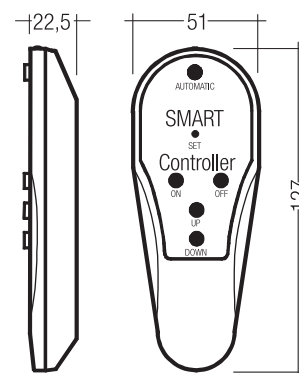
Type	Supply		Inputs	Outputs		
	Power	Output, standby	Dimming switch	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm ²
DSI-SMART PTM integrated	1.7 W	1.5 W	single	250 m	4	250 m
DSI-SMART PTM remote surface	1.7 W	1.5 W	single	250 m	4	250 m
DSI-SMART PTM remote ceiling	3.9 W	1.3 W	single	250 m	25	250 m

ACCES- SORIES

IR-SMART Controller

Product description

- Optional infra-red remote control
- Switching on and off (On/Off button)
- Dimming (Up/Down button)
- Activation of automatic lighting control
- Setting the threshold control point (Set button)

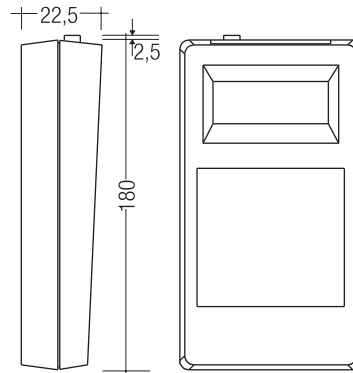


Ordering data

Type	Article number
DSI-SMART Controller	86451922
Packaging: 1 pieces/carton	

Product description

- Optional infra-red programming unit for DSI-Smart PTM
- Settings can be read and modified
- Programmable functions such as light level, time delay, P.I.R., bright-out, power up, start, override



Ordering data

Type	Article number
DSI-SMART Programmer	86447355
Packaging: 1 pieces/carton	



smartDIM SM Ip

Control module for combination with ambient light sensor,
switch or presence sensor

Product description

- Digital DSI control module (luminaire installation unit) for daylight control, motion detector and switch input
- For luminaire installation in a low-profile casing
- Input for a maximum of 2 smartDIM sensors
- Dimming and switching via single switch; multiple switches can be connected in parallel
- Mode can be selected via rotary switch
- The device can be disconnected from the power supply via a built-in relay (this reduce standby losses)

→ For product data sheet go to www.tridonic.com,
or available on request

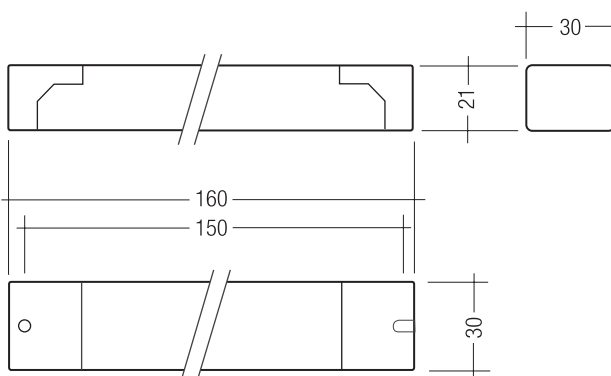
Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Power	1.5 W
Operating temperature	0 ... +60 °C
Storage temperature	-25 ... +55 °C
Type of protection	IP20



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Ordering data

Type	Article number
smartDIM SM Ip	86458337

Packaging: 10 pieces/carton

Specific technical data

Type	Inputs			Outputs			Output, relay (L ¹)		
	Dimming switch	Max. smartDIM sensors	Max. sensor line length	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm ²	Max. switching output (e.g. PCA)	Maximum apparent power	Max. switching output
smartDIM SM Ip	single	2	10 m	1	25	250 m	2	200 VA	500 W

Product description

- Optional ambient light sensor and motion detector for smartDIM SM Ip
- Compact low-profile dimensions for luminaire installation
- With plug terminal or cable



Product matrix, page 379

Wiring diagrams and installation examples, page 427



Fig. 1



Fig. 2

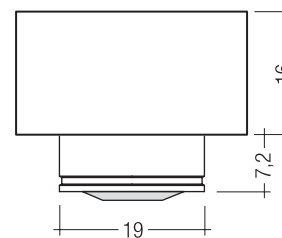
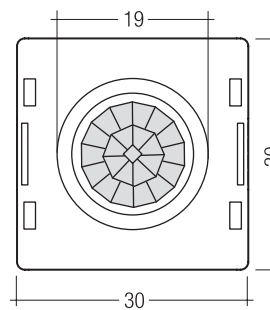


Fig. 1

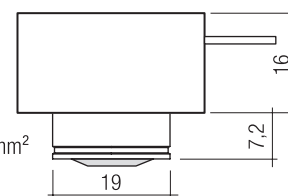
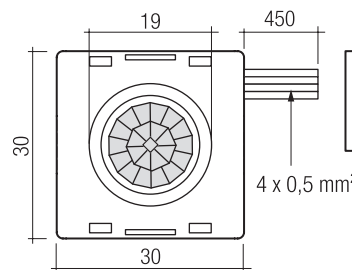


Fig. 2

Ordering data

Fig.	Type	Article number
1	smartDIM Sensor 1	86458465
2	smartDIM Sensor 1 Cable	86454262

Packaging smartDIM Sensor 1: 50 pieces/carton

Packaging smartDIM Sensor 1 Cable: 25 pieces/carton

ACCES-
SORIES

Accessories for smartDIM Sensor

Product description

- Optional for increasing the detection range of the motion sensor for smartDIM Sensor 1



Ordering data

Type	Article number
smartDIM Mirror	86454640
Packaging: 1 pieces/carton	

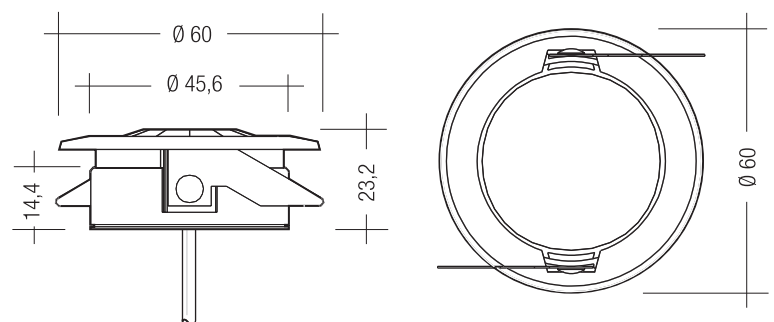
RoHS

ACCES-
SORIES

smartDIM Sensor 2

Product description

- Optional ambient light sensor and motion detector for smartDIM SM Ip
- Compact low-profile dimensions for luminaire installation



Ordering data

Type	Article number
smartDIM Sensor 2	86454523
Packaging: 10 pieces/carton	



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modularDIM Basic

Control and lighting regulation module for 3 DSI channels

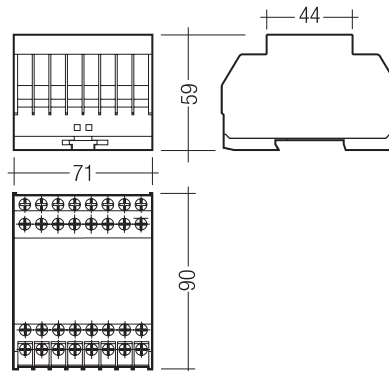
Product description

- Basic module for manual dimming and switching of 3 independent DSI output groups
 - SELV switch inputs for using conventional switches
 - Up to 100 DSI devices per output channel
 - Floating motion sensor inputs for switching each group
 - Ready to start without programming
 - For installation in switching cabinets
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	120 – 277 V
Mains frequency	50 / 60 Hz
Power	< 10 W
Ambient temperature t_a	0 ... +50 °C
Type of protection	IP20



Ordering data

Type	Article number
modularDIM BASIC	86454539

Packaging: 1 pieces/carton, 10 pieces/carton

Specific technical data

Type	Inputs		Outputs		
	Dimming switch	Motion sensor	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm ²
modularDIM BASIC	1-way / 2-way	3	3	100	250 m



ACCESS-
SERIES

modularDIM SC

Product description

- Optional expansion module for scene control in the modularDIM system
- Retrieval and programming of up to 4 lighting scenes
- 4 SELV switch inputs for using conventional switches
- 4 outputs for status LEDs

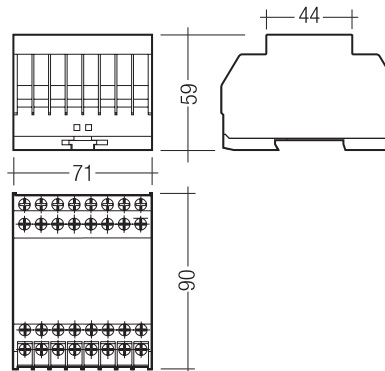
Technical data

Input, 4 switches	single
Ambient temperature t_a	0 ... +50 °C
Type of protection	IP20



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Ordering data

Type	Article number
modularDIM SC	86454545

Packaging: 1 pieces/carton, 10 pieces/carton



ACCES-
SORIES

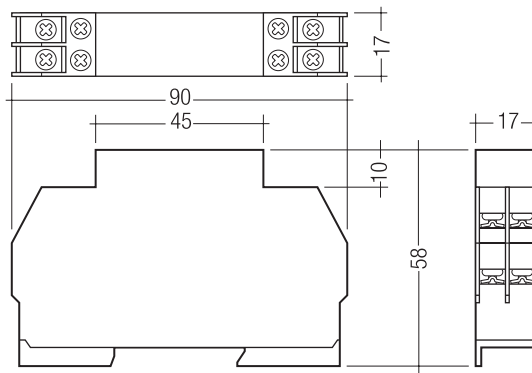
modularDIM DM

Product description

- Optional expansion module for daylight control in the modularDIM system
- Simple programming of independent daylight characteristics for each DSI group
- On/off switching of the daylight function by means of conventional switches

Technical data

Input, light sensor	1
Input, switch man/auto	1
Ambient temperature t_a	0 ... +50 °C
Type of protection	IP20



Ordering data

Type	Article number
modularDIM DM	86454564

Packaging: 1 pieces/carton, 10 pieces/carton



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ACCES-
SORIES

Accessories for modularDIM DM

Product description

- Ceiling sensor for measuring daylight



Ordering data

Type	Article number
Sensor DAYLIGHT	86454586

Packaging: 1 pieces/carton, 40 pieces/carton



ACCES-
SORIES

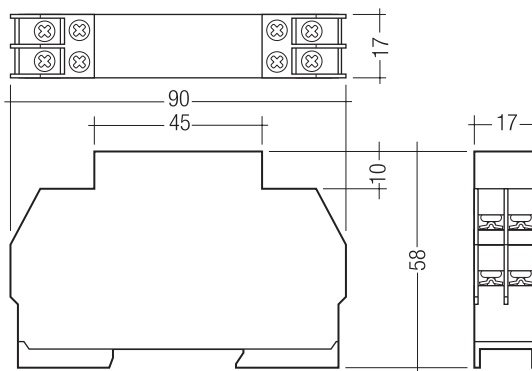
modularDIM LC

Product description

- Optional expansion module for non-floating motion sensors or switches in the modularDIM system

Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Max. output dielectric strength	30 V (SELV)
Input, with electrical isolation	4000 V 2 min.; 6 mm (SELV)
Ambient temperature t_a	0 ... +50 °C
Type of protection	IP20



Ordering data

Type	Article number
modularDIM LC	86457888

Packaging: 1 pieces/carton, 10 pieces/carton



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DSI IR

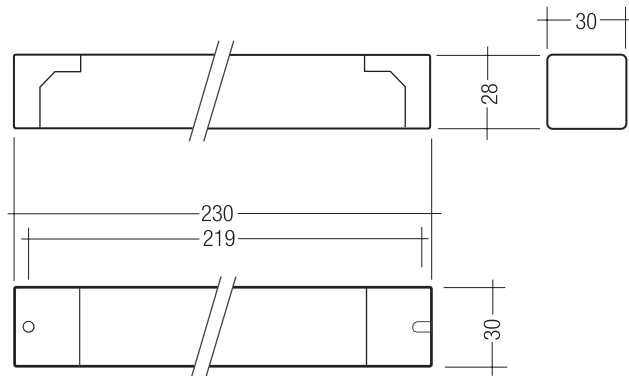
Control module with input for infrared receiver and single momentary-action switch

Product description

- DSI control module for infra-red receiver and switch input
 - For a luminaire group of up to 25 DSI ballasts
 - Input for one-way switch for dimming
 - Input for infra-red receiver IRED
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Rated supply voltage	230 – 240 V
Mains frequency	50 / 60 Hz
Power	1 W
Ambient temperature t_a	-25 ... +60 °C
Type of protection	IP20



Ordering data

Type	Article number
DSI-IR	22114184

Packaging: 1 pieces/carton, 10 pieces/carton

Specific technical data

Type	Inputs			Outputs		
	Dimming switch	Infra-red receiver	Max. sensor line length	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm ²
DSI-IR	1-way / 2-way	1	10 m	1	25	50 m



DSI 2IR

Control module with input for infrared receiver and single momentary-action switch

Product description

- DSI control module for infra-red receiver and switch input
- For up to 2 luminaire groups each with 25 digital dimmable ballasts
- Input for 2 one-way switches for dimming
- Input for infra-red receiver IRED

→ For product data sheet go to www.tridonic.com,
or available on request

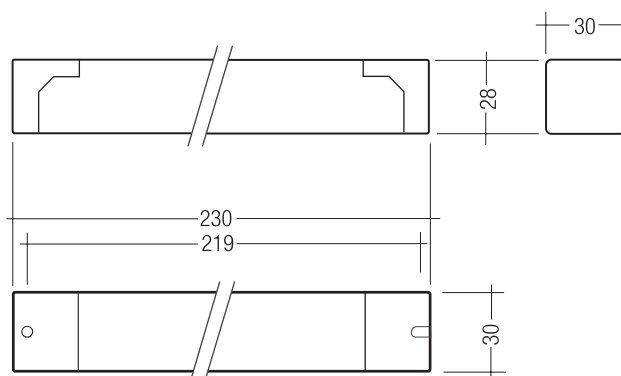
Technical data

Rated supply voltage	230 – 240 V
Mains frequency	50 / 60 Hz
Power	1 W
Ambient temperature t_a	-25 ... +60 °C
Type of protection	IP20



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Ordering data

Type	Article number
DSI-2IR	22114190

Packaging: 1 pieces/carton, 10 pieces/carton

Specific technical data

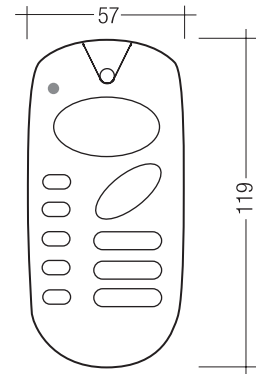
Type	Inputs			Outputs		
	Dimming switch	Infra-red receiver	Max. sensor line length	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm ²
DSI-2IR	1-way/2-way (per DSI output)	1	10 m	2	25	50 m

ACCES-
SORIES

IRS

Product description

- Optional infra-red remote control for DSI-IR and DSI-2IR
- For controlling up to 5 addressed DSI-IR / DSI-2IR control modules
- Storage and retrieval of three lighting scenarios
- Complete with wall bracket



Ordering data

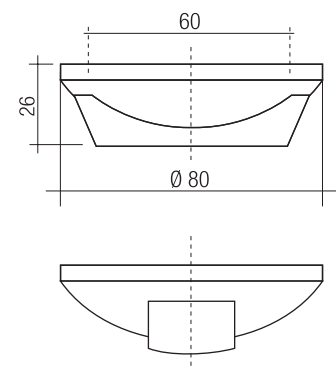
Type	Article number
IRS Infrared remote control	20975492
Packaging: 1 pieces/carton	

ACCES-
SORIES

IREC

Product description

- Optional infra-red receiver for ceiling mounting for DSI-IR and DSI-2IR
- Compact low-profile dimensions



Ordering data

Type	Article number
IREC Infrared sensor, surface-mount	22114587
Packaging: 1 pieces/carton	



DSI-V/T

Control module for amplifying DSI signals

Product description

- Multi-functional DSI controller
- For amplifying the DSI signal for a maximum of 50 DSI devices or for cascading long lines
- Function can be set via DIP switches
- Input for manual dimming
- Input for motion sensor or switch for scene recall
- Different motion sensor functions can be set
- One scene can be set and recalled

→ For product data sheet go to www.tridonic.com, or available on request

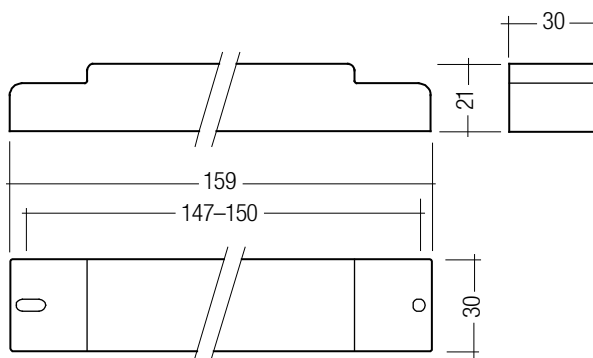
Technical data

Rated supply voltage	120 – 277 V
Mains frequency	50 / 60 Hz
Power	1 W
Ambient temperature t_a	-25 ... +60 °C
Type of protection	IP20



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Ordering data

Type	Article number
DSI-V/T	86458690

Packaging: 1 pieces/carton, 10 pieces/carton

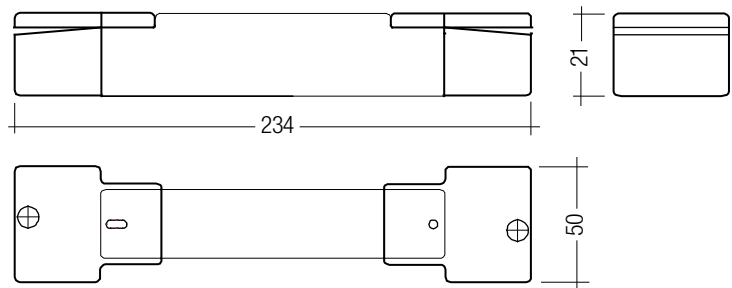
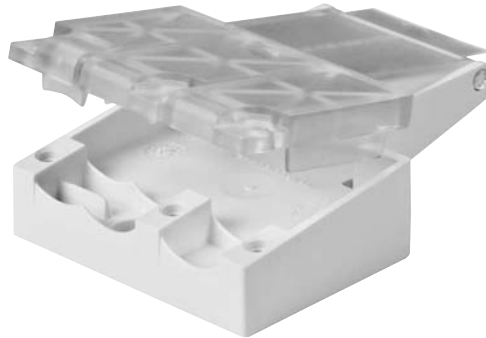
Specific technical data

Type	Inputs				Outputs	
	Dimming switch	Motion sensor	DSI signal	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm ² ®
DSI-V/T	1-way / 2-way	1	1	1	50	250 m

® Max. cable length in tunnel/security mode = 500 m (DSI-V function only)

ACCES-
ORIES

Strain-relief set



Ordering data

Type	Article number
Strain-relief set	86458689



DSI-A/D

Converter for 1...10 V into DSI signal 1-channel for installation in luminaire

Product description

- Converter for converting analog signals into DSI signals
 - For connecting DSI devices in 1...10 V control systems
 - For a maximum of 50 DSI devices
 - Constant lighting control possible via terminal for SMART LS II
 - On/off switching via separate switch input
- For product data sheet go to www.tridonic.com,
or available on request

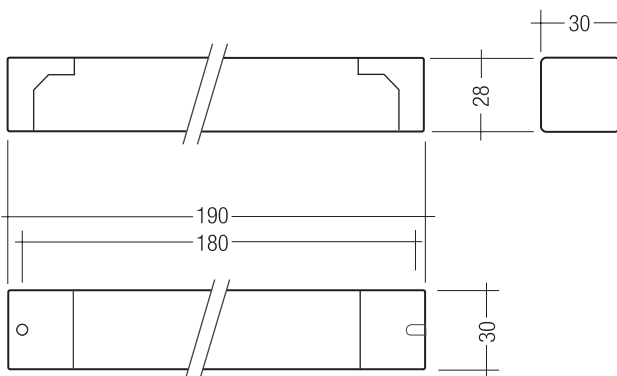
Technical data

Rated supply voltage	230 – 240 V
Mains frequency	50 / 60 Hz
Power	4 W
Ambient temperature t_a	0 ... +60 °C
Type of protection	IP20



Product matrix, page 379

Wiring diagrams and installation examples, page 427



Ordering data

Type	Article number
DSI-A/D	86453957

Packaging: 1 pieces/carton, 10 pieces/carton

Specific technical data

Type	Inputs				Outputs		
	Dimming	Dimming, potentiometer (optional) ^①	ON/OFF switch (220–240 V)	Ambient light sensor	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm ²
DSI-A/D	1...10 V	47 (≥ 47 ≤ 100) kOhm	1	1	1	50	100 m

^① Potentiometer with linear characteristics, optimum: 47 kOhm, possible range: 47 – 100 kOhm; power ≥ 0,5 W



DSI-A/DS

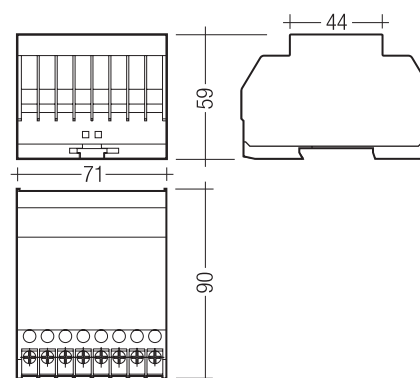
Converter for 1...10 V into DSI signal 1-channel for installation in switchgear cabinet

Product description

- Converter for converting analog signals into DSI signals
 - For installation in switching cabinets
 - For connecting DSI devices in 1...10 V control systems
 - For a maximum of 100 DSI devices
 - On/off switching via separate switch input
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Rated supply voltage	230 – 240 V
Mains frequency	50 / 60 Hz
Power	4 W
Ambient temperature t_a	0 ... +50 °C
Type of protection	IP20



Ordering data

Type	Article number
DSI-A/DS	86456111

Packaging: 1 pieces/carton, 10 pieces/carton

Specific technical data

Type	Inputs			Outputs		
	Dimming	Dimming, potentiometer (optional) ^①	ON/OFF switch (220–240 V)	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm ²
DSI-A/DS	1...10 V	47 (≥ 47 ≤ 100) kOhm	1	1	100	250 m

^① Potentiometer with linear characteristics, optimum: 47 kOhm, possible range: 47 – 100 kOhm; power ≥ 0,5 W



DSI-EIB

Converter for EIB into DSI signals for separate installation

Product description

- Converter for converting EIB signals into DSI signals
- For connecting digital DSI devices in EIB systems
- 1 EIB input
- 1 DSI output for a maximum of 50 DSI devices
- Surface-mounted casing

Note

- EIBP – Product database for DSI EIB / DSI EIBS.

Download at www.tridonic.com

→ For product data sheet go to www.tridonic.com,
or available on request

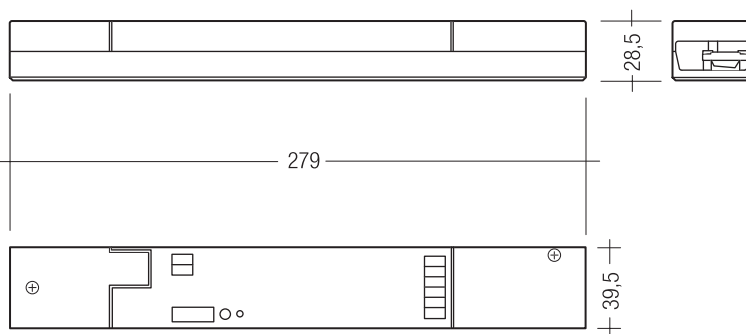
Technical data

Rated supply voltage	230 – 240 V
Mains frequency	50 / 60 Hz
Power	2.6 W
Ambient temperature t_a	-5 ... +45 °C
Type of protection	IP20



Product matrix, page 379

Wiring diagrams and installation examples, page 427



Ordering data

Type	Article number
DSI-EIB	20827097

Packaging: 1 pieces/carton, 10 pieces/carton

Specific technical data

Type	Inputs	Outputs		
	Dimming / Switching / Reporting	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm ²
DSI-EIB	KNX (EIB)	1	50	100 m



DSI-EIBS

Converter for EIB into DSI signals for installation in switch cabinet

Product description

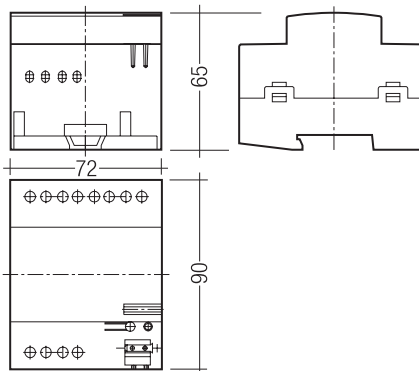
- Converter for converting EIB signals into DSI signals
- For installation in switching cabinets
- For connecting digital DSI devices in EIB systems
- 1 EIB input
- 1 DSI output for a maximum of 50 DSI devices

Note

- EIBP – Product database for DSI EIB / DSI EIBS.
Download at www.tridonic.com
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Rated supply voltage	230 – 240 V
Mains frequency	50 / 60 Hz
Power	2.6 W
Ambient temperature t_a	-5 ... +45 °C
Type of protection	IP20



Ordering data

Type	Article number
DSI-EIBS	24030297

Packaging: 1 pieces/carton, 10 pieces/carton

Specific technical data

Type	Inputs	Outputs		
	Dimming / Switching / Reporting	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm ²
DSI-EIBS	KNX (EIB)	1	50	250 m



DSI-PCD/S

40 – 1000 VA leading-edge/trailing-edge phase dimmer with preset

Product description

- Digital leading-edge and trailing edge phase dimmers
 - Control via DSI signal or switch
 - Preset function: storage and retrieval of any lighting value
 - With automatic load detection
 - For installation in switching cabinets
 - Status LED for indicating the operating status
- For product data sheet go to www.tridonic.com,
or available on request

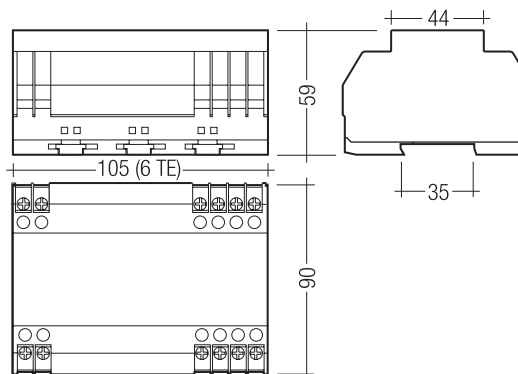
Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Connected load	40 – 1,000 VA
Power loss	2 W (15 W at full load)
Ambient temperature t_a	0 ... +40 °C
Type of protection	IP20



Product matrix, page 379

Wiring diagrams and installation examples, page 427



Ordering data

Type	Article number
DSI-PCD/S	22154333

Packaging: 1 pieces/carton

Specific technical data

Type	Inputs			Outputs		Terminals
	Switch input for preset retrieval	Single or twin push to make switches	DSI control input	Dimmed phase	Control range, output	
DSI-PCD/S	1	1	1	1	0; 1 – 100 %	0.75 – 2.5 mm ²



DSI RK

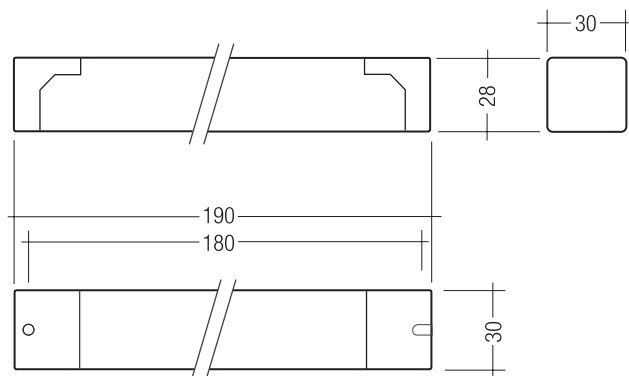
Relay module for switching ohmic loads

Product description

- Relay module
 - For switching ohmic loads
 - Operation via switch (switchDIM) or DSI signal
 - Parametrisation (RELAY-ON, RELAY-OFF) via configTOOL software
 - Floating switching output
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Ambient temperature t_a	0 ... +60 °C
Type of protection	IP20



Ordering data

Type	Article number
DSI-RK	86449304

Packaging: 1 pieces/carton, 10 pieces/carton

Specific technical data

Type	Input	Output, relay		
		Relay, floating	Switching output (at 110 V DC max.)	Switching output (at 250 V AC max.)
DSI-RK	DSI/switchDIM	Make contact	110 W / 1 A	500 W / 2 A



Smart SWITCH II

Automatic switching based on presence and light level

Product description

- Motion sensor for luminaire installation
- For automatic on/off switching of luminaires with electronic ballasts
- „Bright-Out“ function: luminaire is not switched on if there is adequate brightness
- Maximum of 1 sensor possible
- Low-profile casing (21 x 30 mm)
- For a maximum of 2 ECGs
- Delay time and light value for the „Bright-Out“ function can be set via 2 potentiometers

→ For product data sheet go to www.tridonic.com,
or available on request

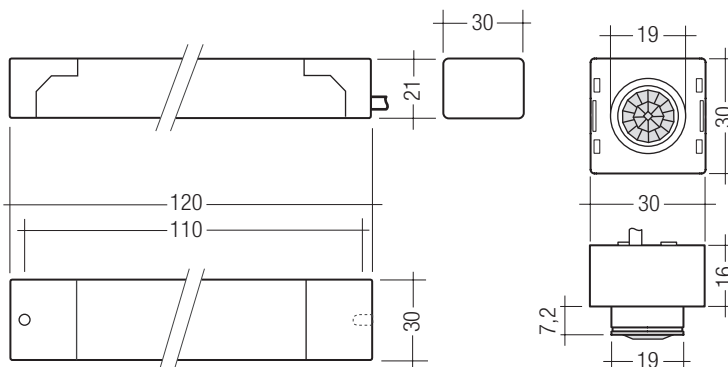
Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Power	7.5 VA
Output, standby	0.6 W
Ambient temperature t_a	0 ... +60 °C



Product matrix, page 379

Wiring diagrams and installation examples, page 427



Ordering data

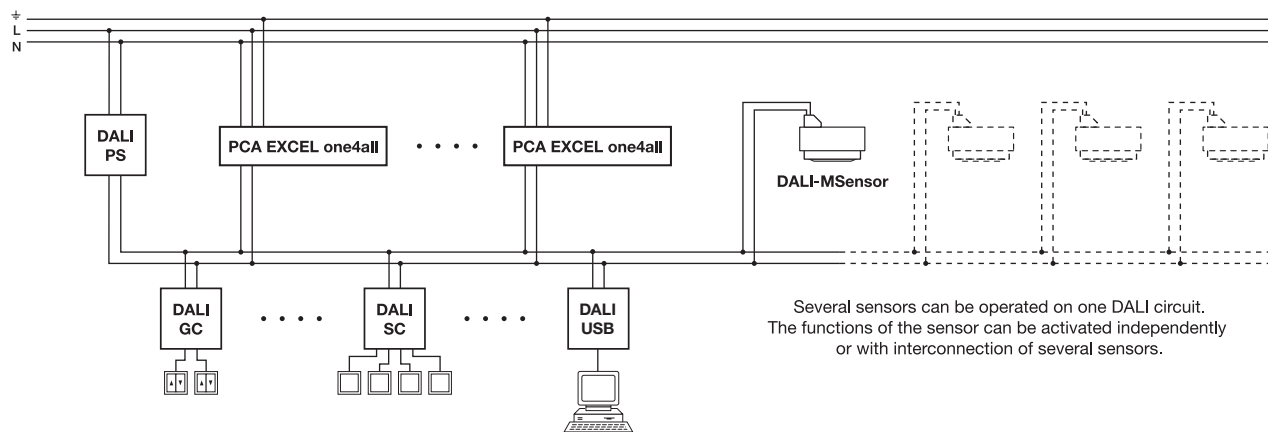
Type	Article number
Smart SWITCH II	86458452
Smart SWITCH strain relief	86458246

Packaging: 10 pieces/carton

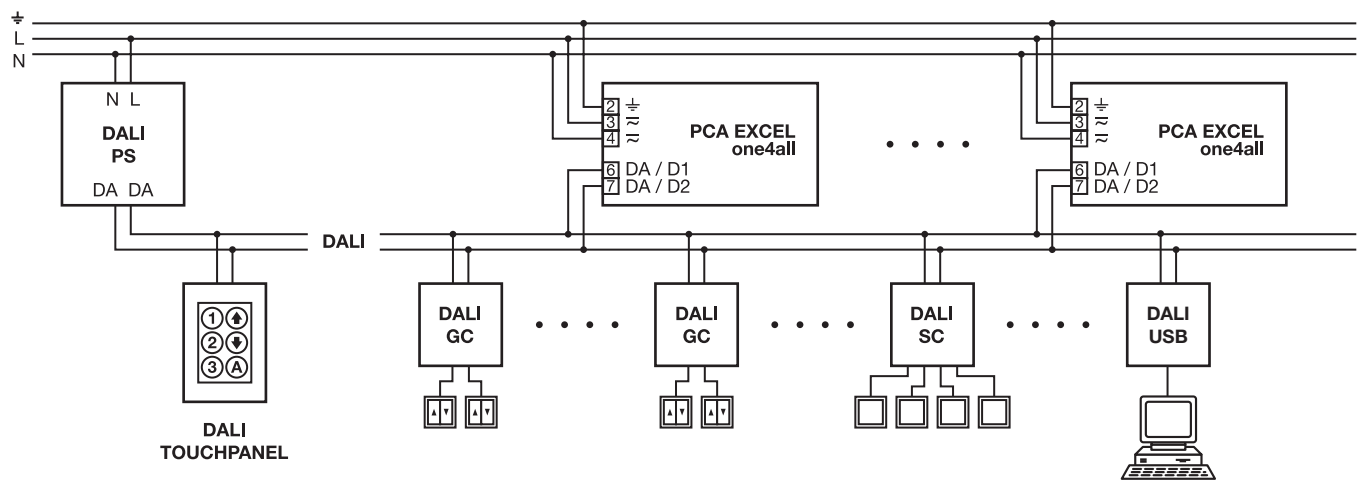
Specific technical data

Type	Inputs		Output, relay (L')			
	Max. smartSWITCH sensors	Sensor cable length	L' (switched phase)	Max. switching output (e.g. PCA)	Max. switching output [W]	Max. switching output [VA]
smartSWITCH II	1	0.50 m (can be extended to 2 m max.)	220 – 240 V	2	500 W	200 VA
smartSWITCH strain relief	1	0.25 m (can be extended to 2 m max.)	220 – 240 V	2	500 W	200 VA

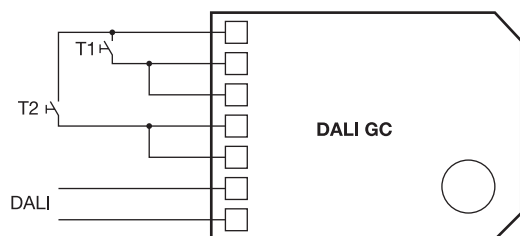
DALI-MSensor



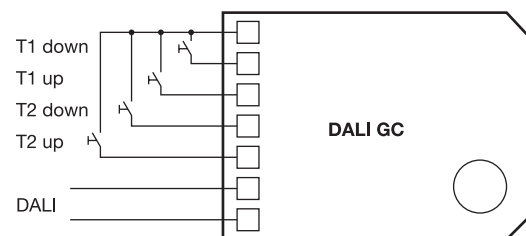
DALI modules in a network



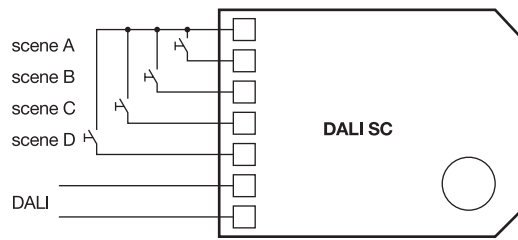
DALI GC, single push to make switches



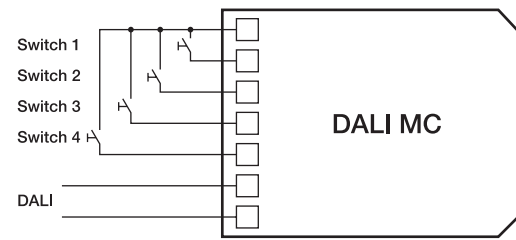
DALI GC, double push to make switches



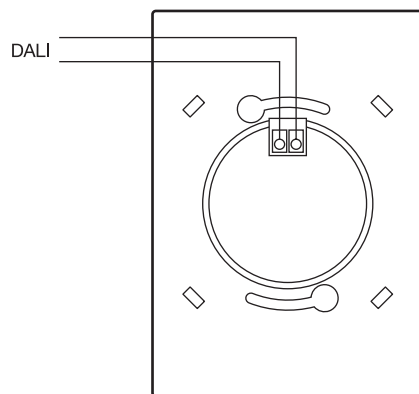
DALI SC



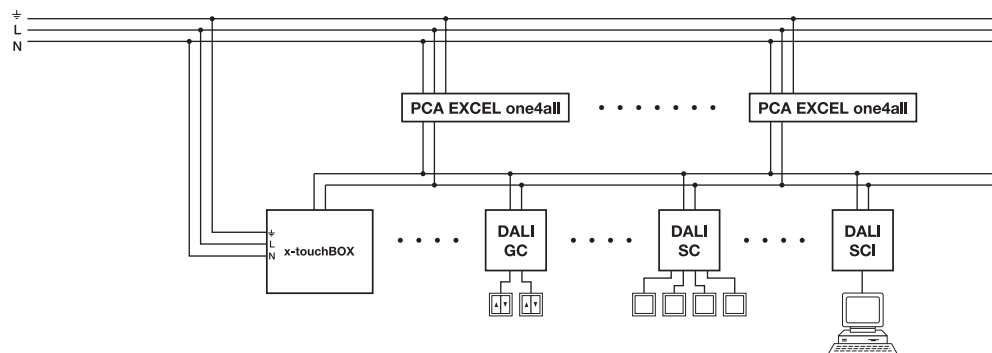
DALI MC



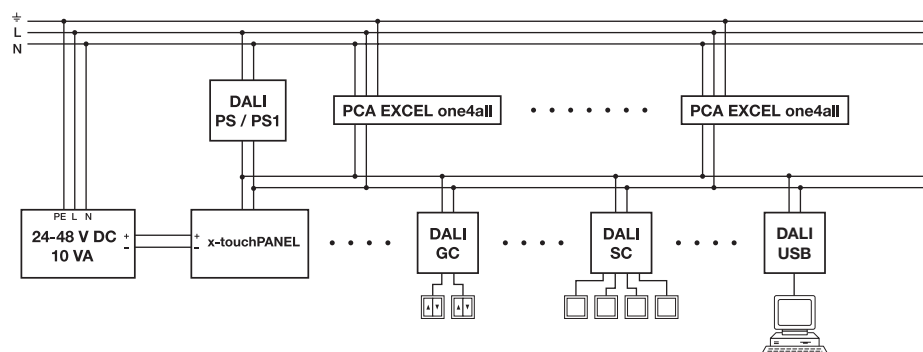
DALI TOUCHPANEL



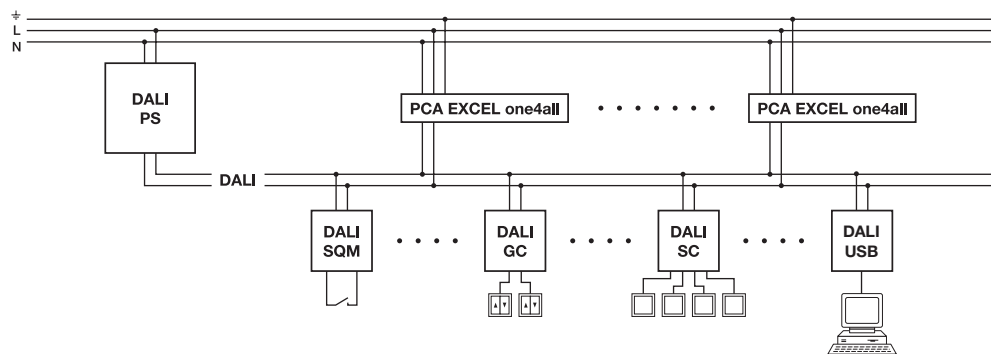
x-touchBOX



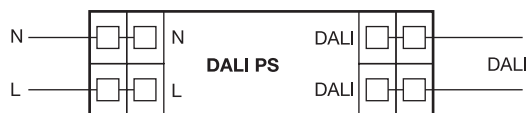
x-touchPANEL



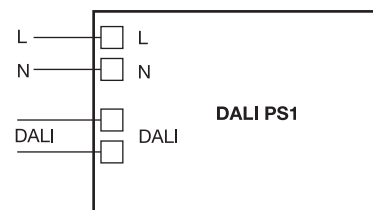
DALI SQM



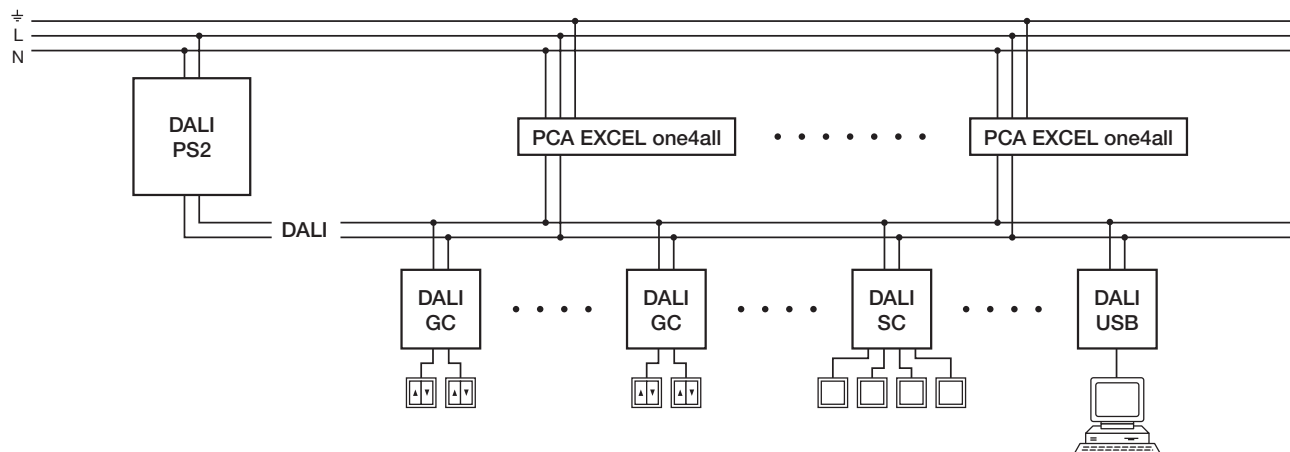
DALI PS



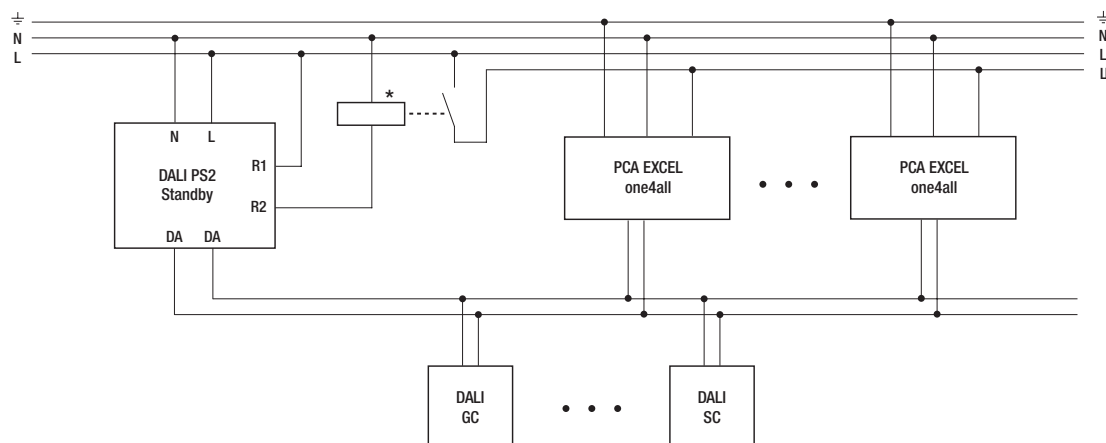
DALI PS1



DALI PS-2



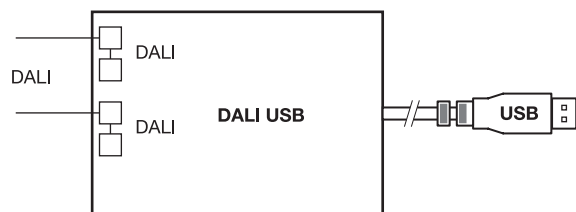
DALI PS-2 Standby



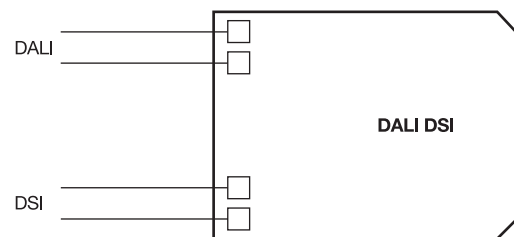
* DALI control modules that have their own power supply must not be connected to the switched phase L'

** The inrush currents of the ECG must be taken into account when dimensioning the contactor

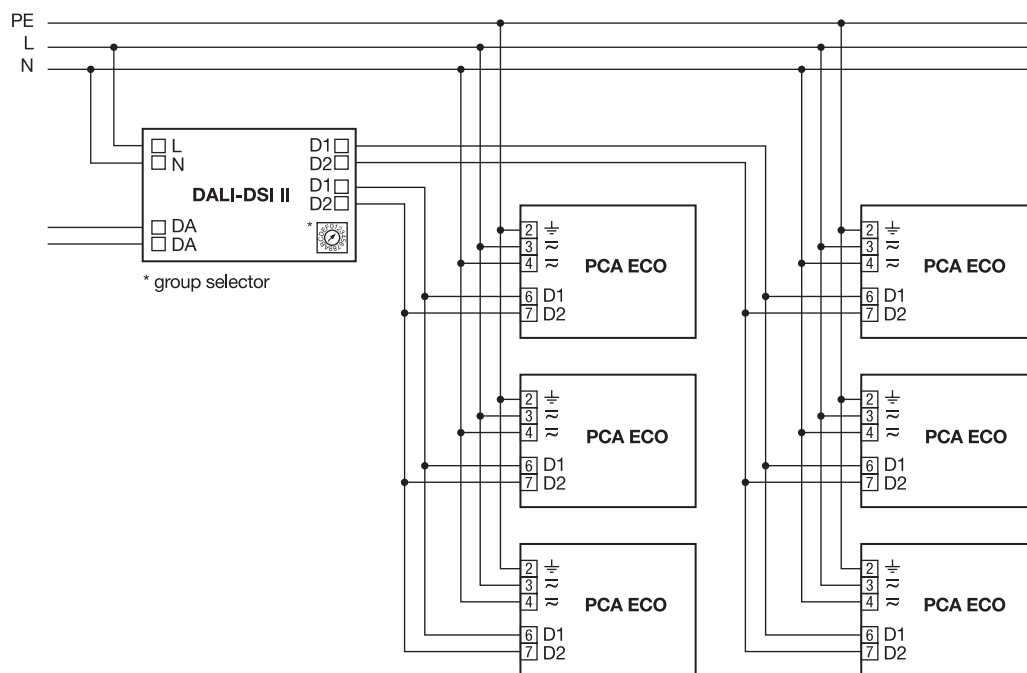
DALI USB



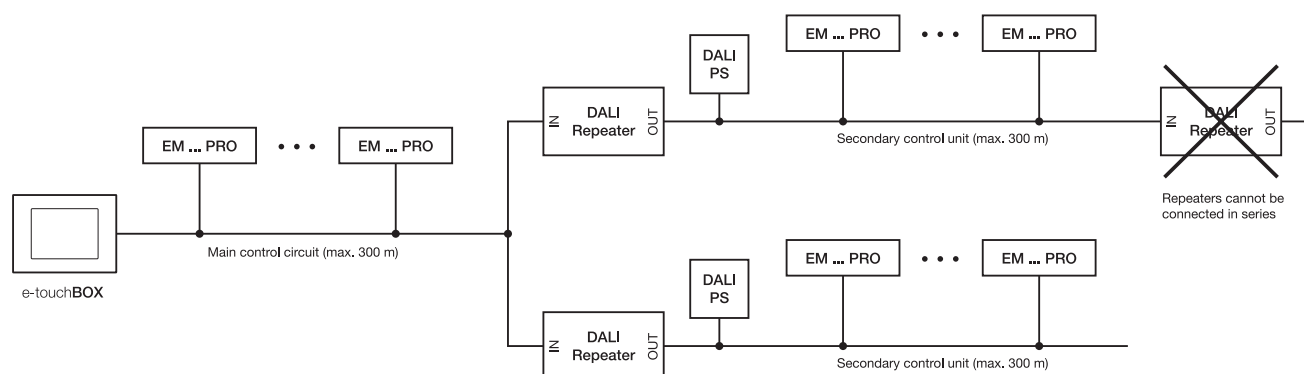
DALI DSI



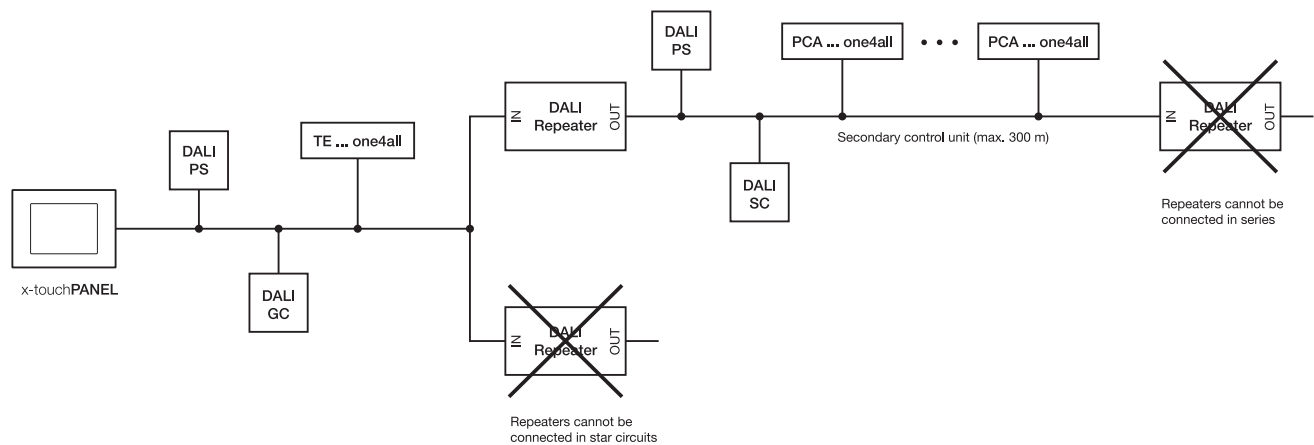
DALI DSI II



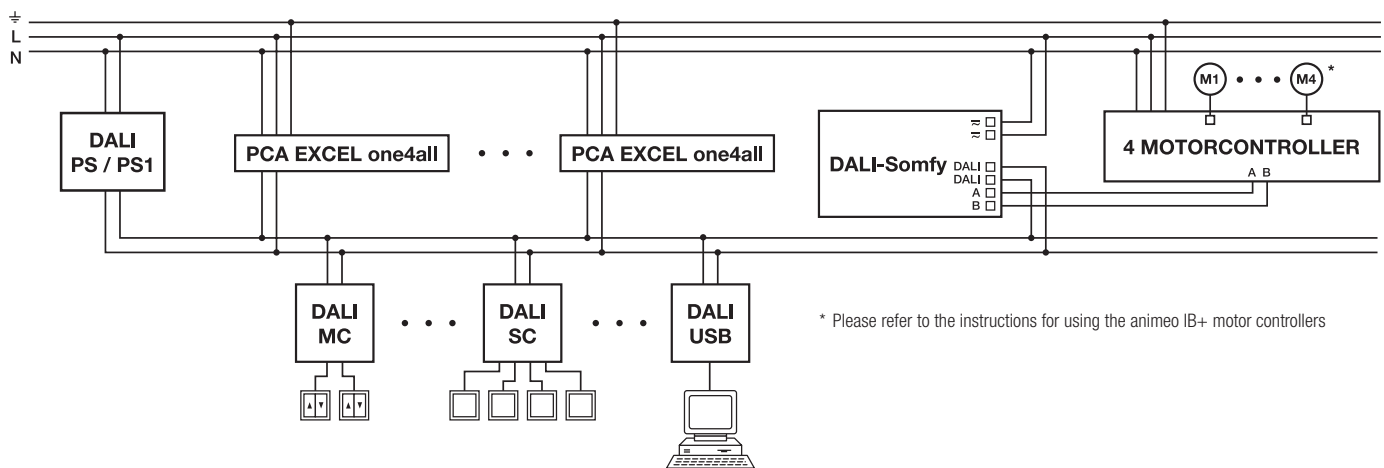
DALI Repeater – with one controller



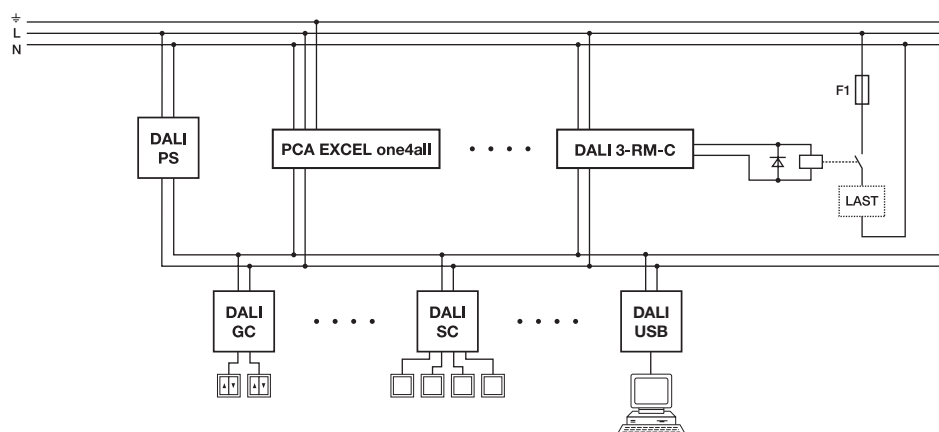
DALI Repeater – with multiple controllers



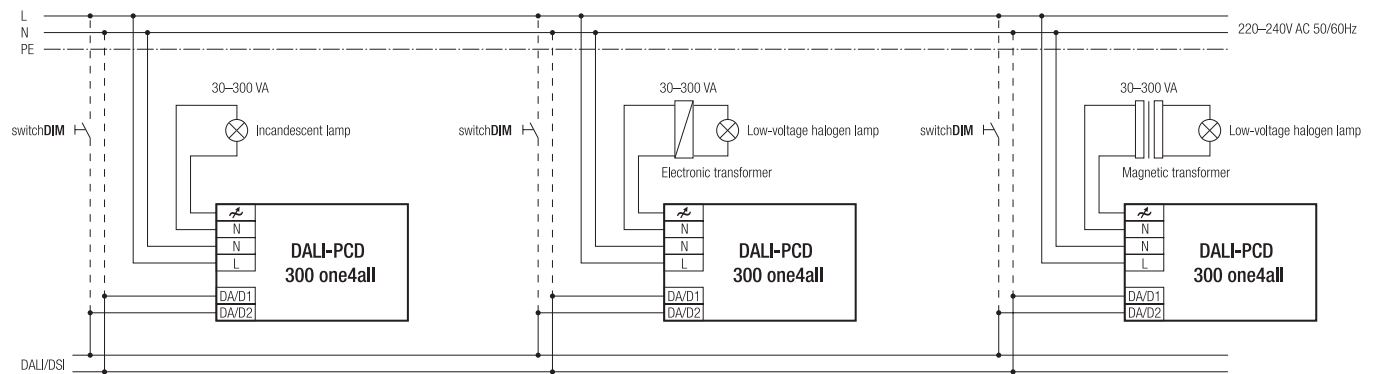
DALI-Somfy animec interface



DALI 3-RM-C

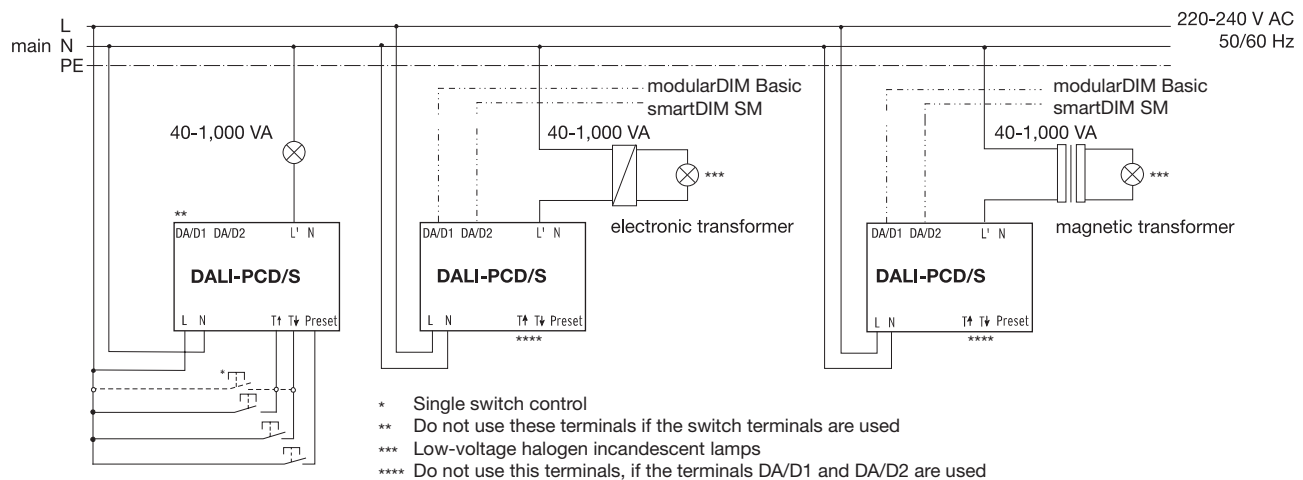


DALI PCD 300 one4all

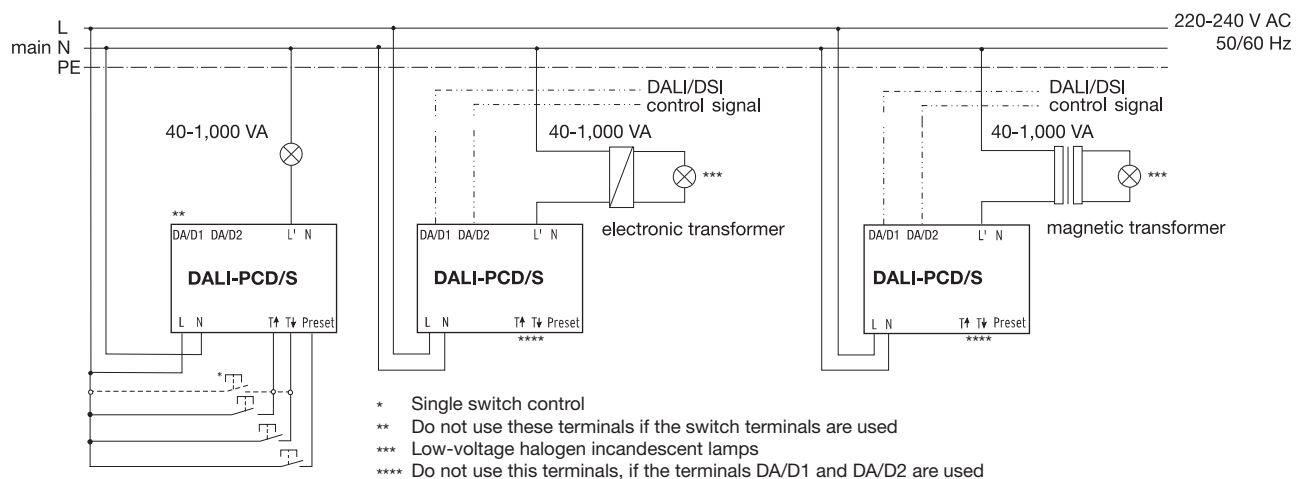


Mixed loads (capacitive, inductive and resistive) can be used.

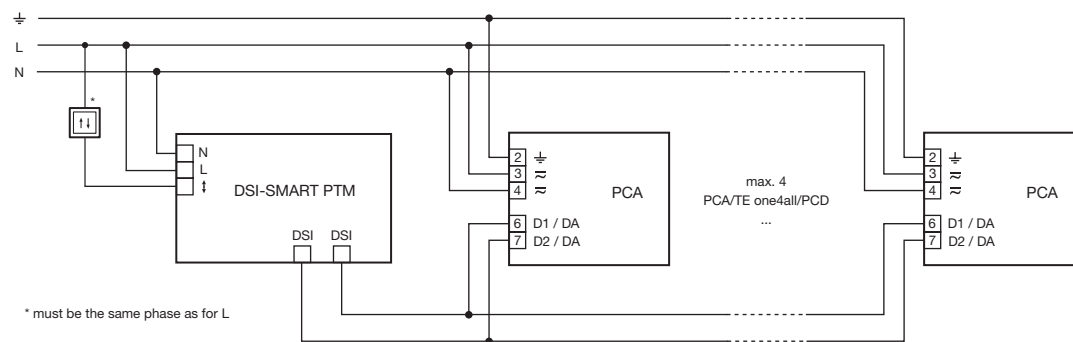
DALI-PCD/S – circuit 1



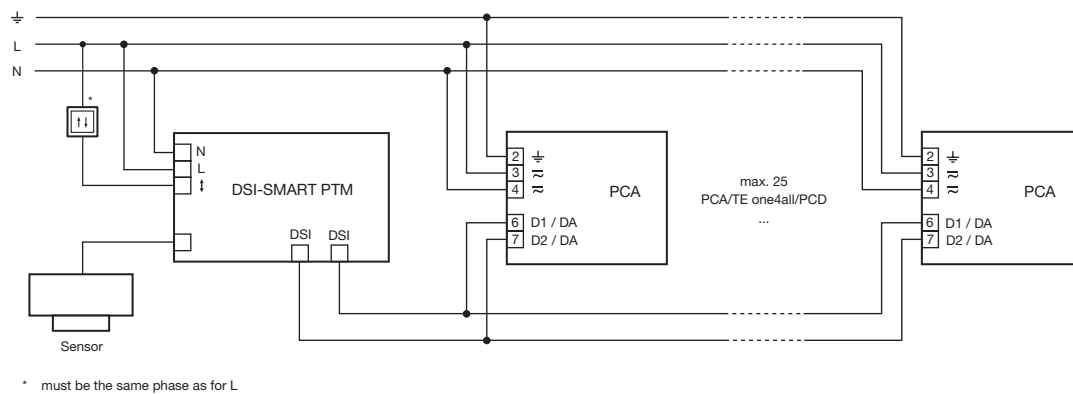
DALI-PCD/S – circuit 2



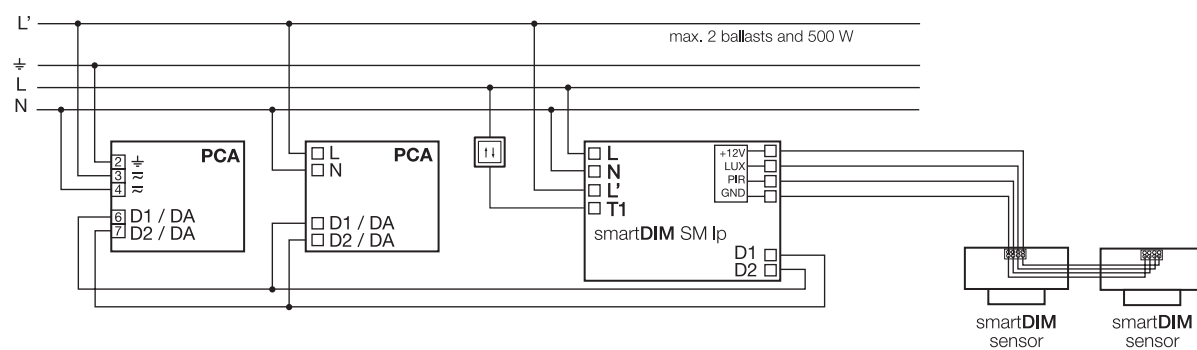
DSI SMART PTM – luminaire installation / surface mounting



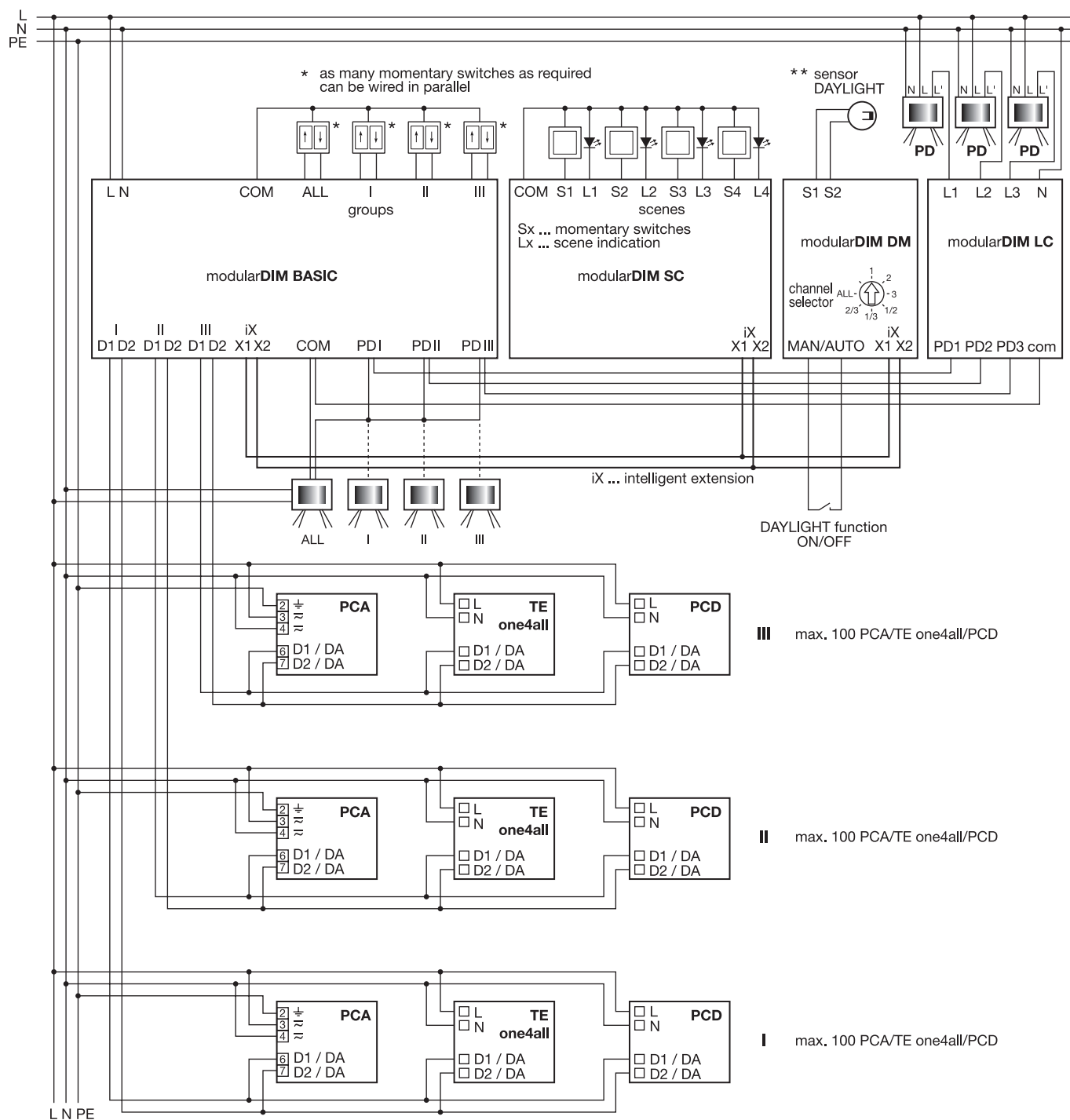
DSI SMART PTM – ceiling installation



smartDIM SM Ip



modularDIM

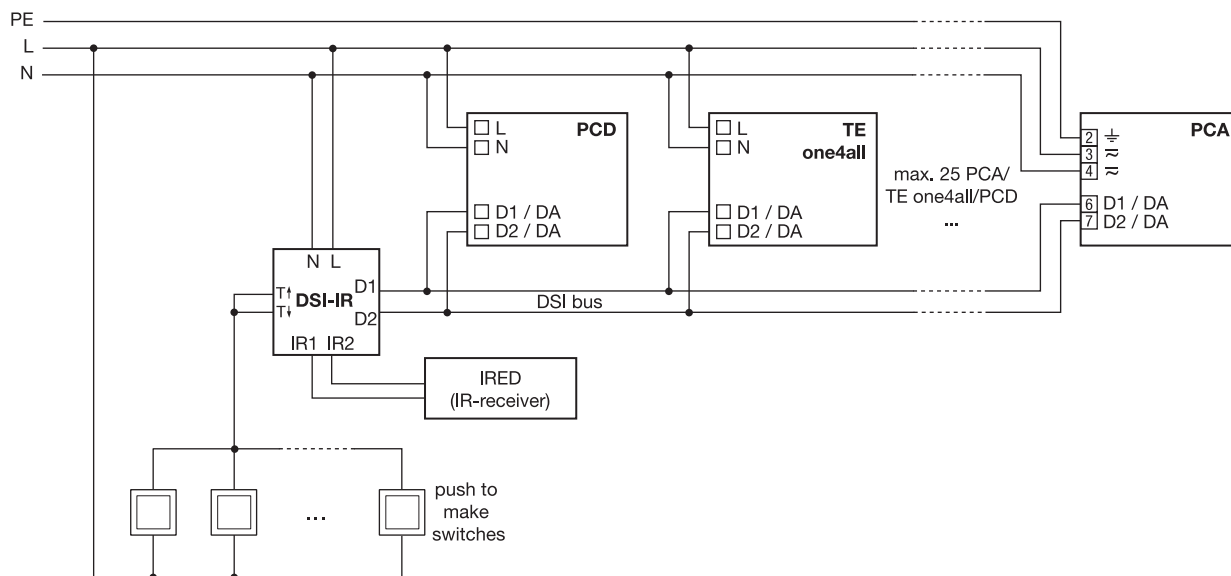


** the light sensor "sensor DAYLIGHT" is to be installed with free view direction window (consider mounting instruction)

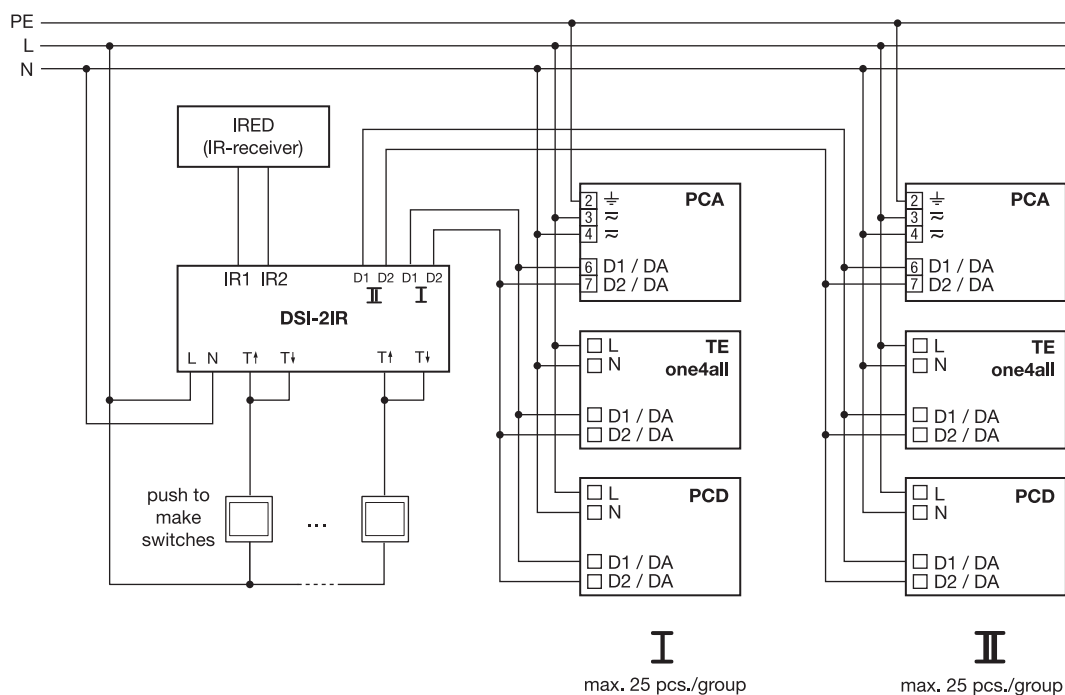
maximum wire lengths:

- DSI: max. 250 m
- momentary switch: max. 100 m
- scene indication: max. 100 m
- iX: max. 10 m
- sensor DAYLIGHT: max. 100 m
- DAYLIGHT function ON/OFF: max. 100 m

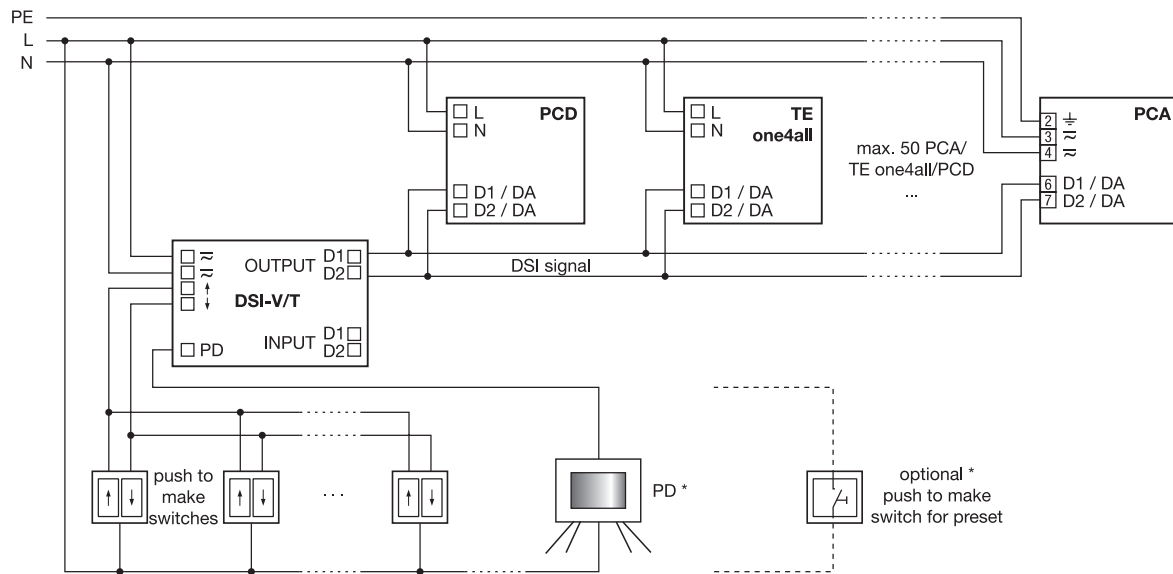
DSI-IR



DSI-2IR

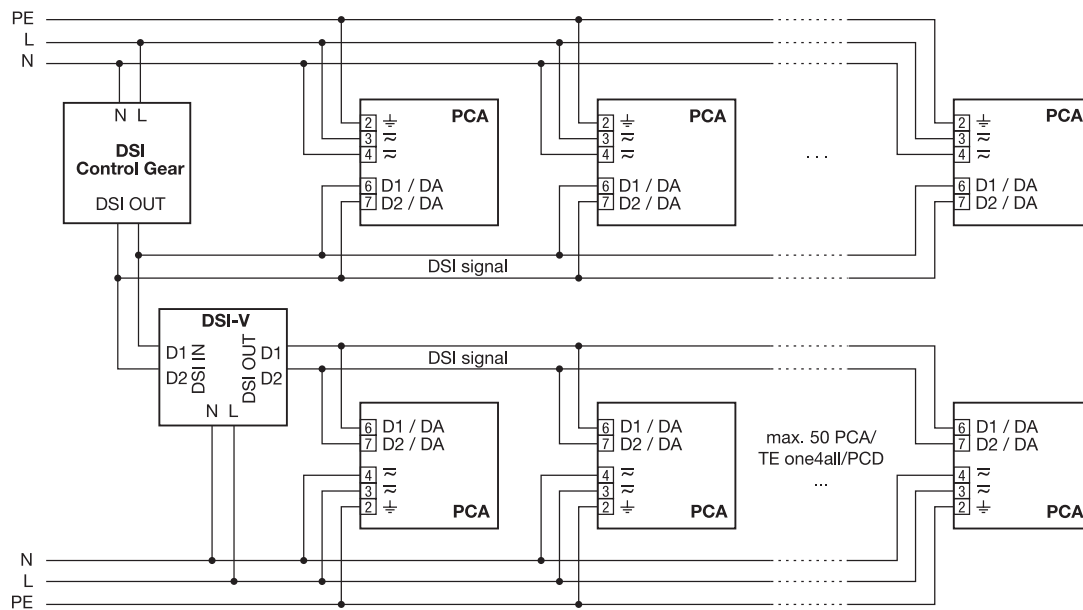


DSI-V/T (DSI-T function)



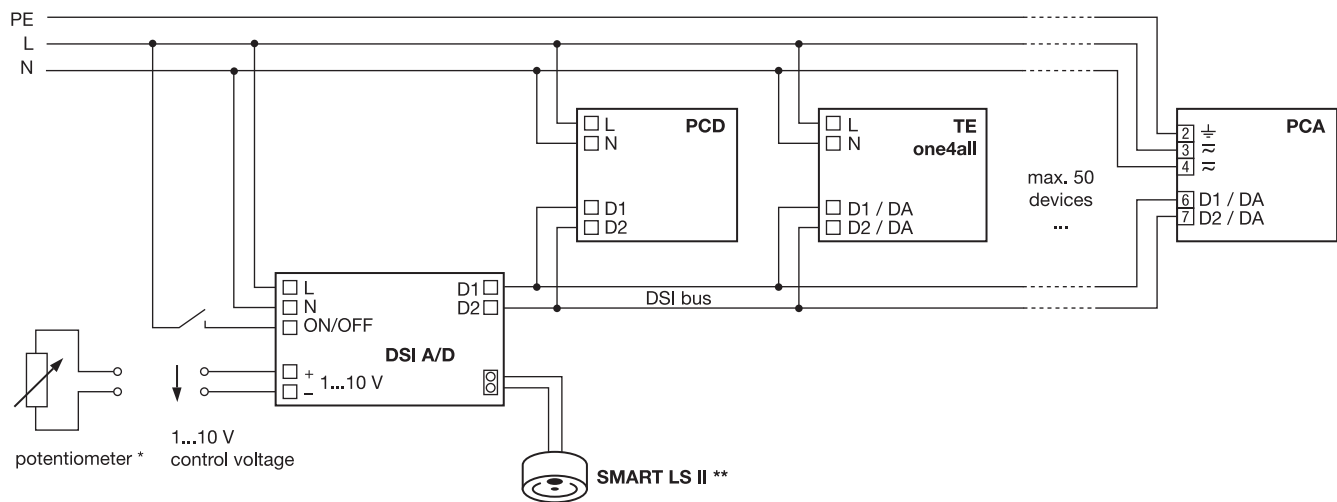
* Either control via PD or scene control with push to make switches.

DSI-V/T (DSI-V function)



Cable length: Cable lengths of up to 500 m can be achieved by concatenating individual DSI-V/Ts. This maximum cable length can only be guaranteed in DSI-V mode if the DSI-V/T is operated as the only load, otherwise the maximum cable length is 250 m for a 1.5 mm².

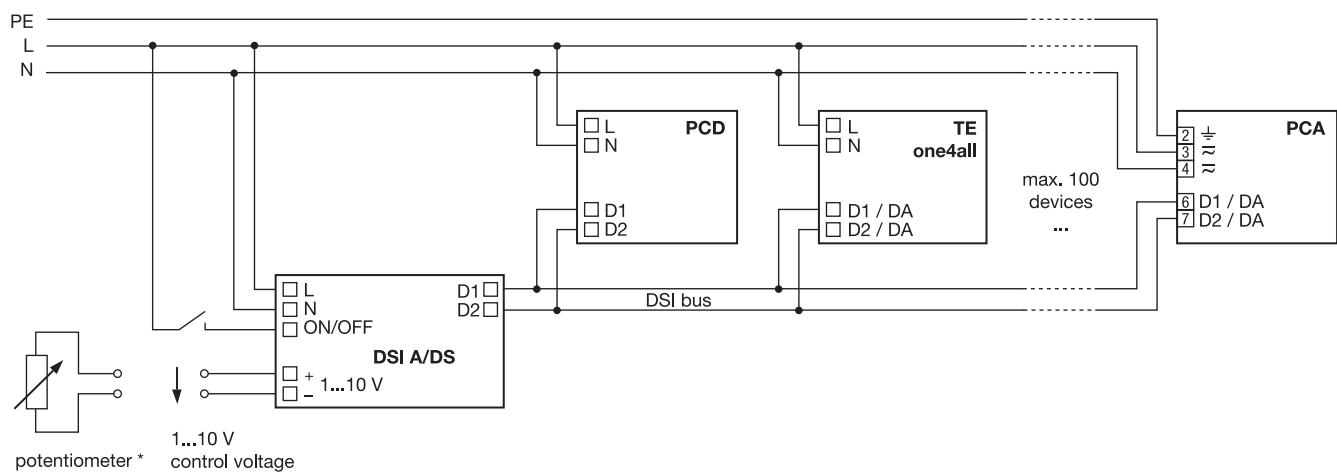
DSI-A/D



* if potentiometer with linear characteristic optimum 47 k Ω (47-100 k Ω possible), load ≥ 0.5 W

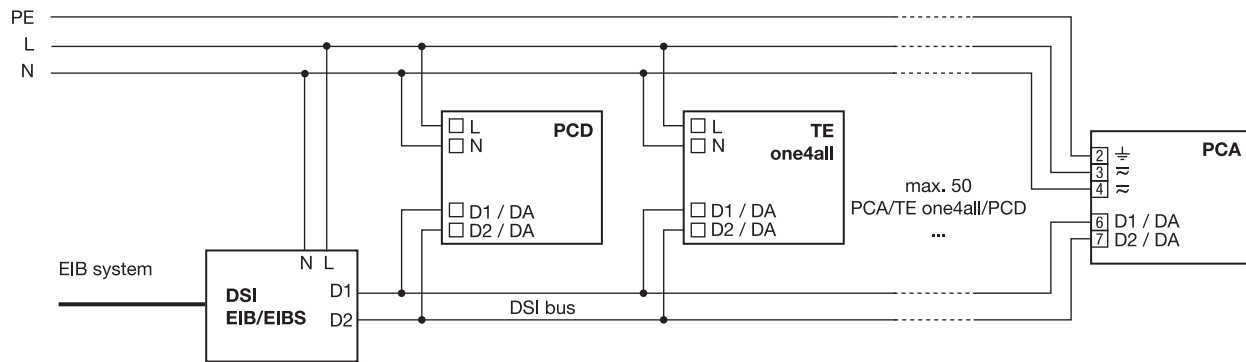
** if a SMART LS II sensor connected, the 1...10 V function is disabled

DSI-A/DS

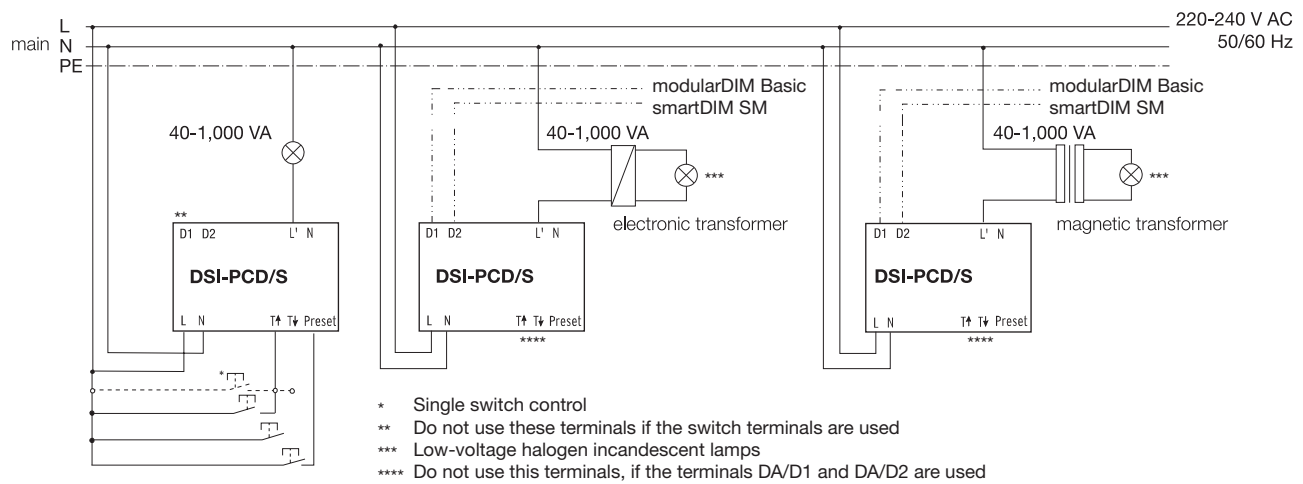


* potentiometer with linear characteristic optimum 47 k Ω (47-100 k Ω possible), load ≥ 0.5 W

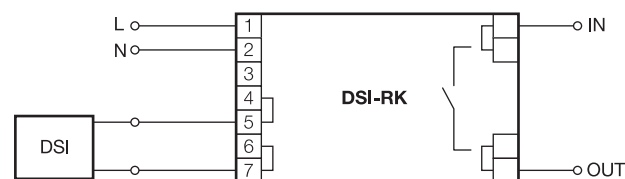
DSI-EIB/EIBS



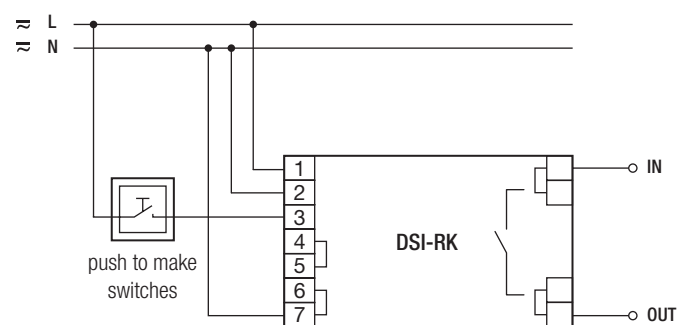
DSI-PCD/S



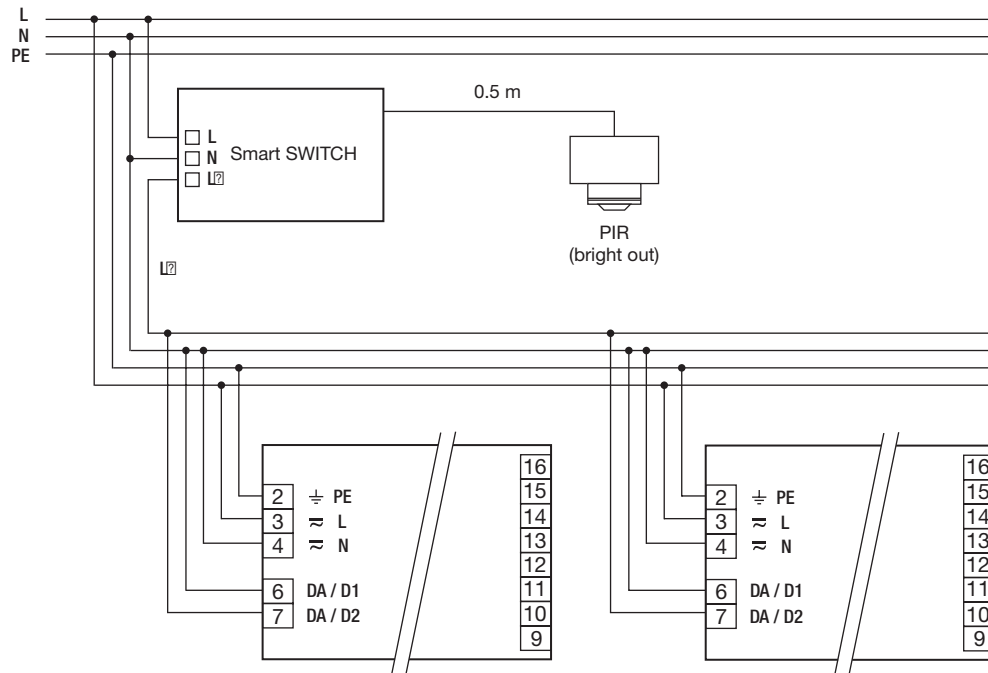
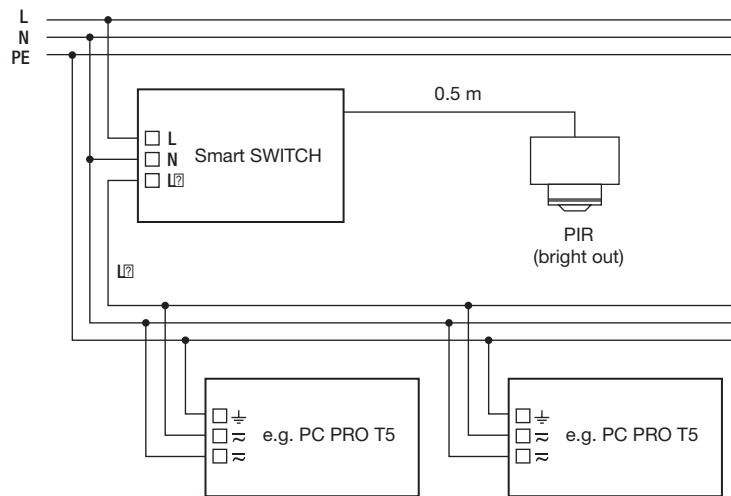
DSI-RK (DSI)



DSI-RK (switchDIM)



Smart SWITCH



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TALEXstrip, white

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TALEXstrip, white / RGBA

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TALEXtape

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TALEXstrip, white module chains

TALEXstrip P521-3 Page 488

TALEXstrip, RGB module chains

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End cap for Z201-2 Page 491

TALEXprofile Z22W-2 Page 492

End cap for Z22W-2 Page 492

End cap with cable penetration for Z22W-2 Page 493

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End cap for Z202 Page 494

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End cap for Z203 Page 495

Slide-in unit / cooling section

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Linear lens

TALEX lens 0200	Page 499

Mounting plate

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Emergency lighting

TALEXengine

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TALEXengine for refrigeration units

TALEXengine FREEZE

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TALEXconverter

Constant voltage

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TALEXcontrol

PWM dimmer

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PWM sequencer

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DALI 3-channel

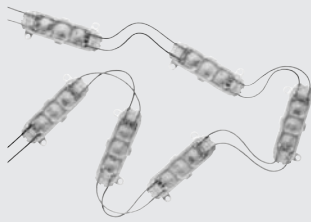
TALEXcontrol C003 DALI RGB Page 533

PWM amplifier

TALEXcontrol C004 Page 534

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Product overview



TALEXchain

Application:

- Signage backlighting

Description:

- Unrivalled perception of light
- Constant quality of light
- A large amount of light and low energy consumption thanks to high efficiency
- Very low maintenance costs thanks to high reliability
- High functionality in terms of installation and application



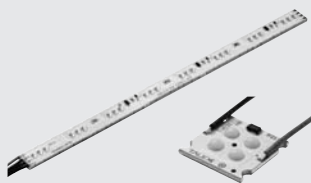
TALEXengine

Application:

- Illumination of light boxes and poster boxes
- Product presentation in shelving and cabinets
- LED lighting for refrigeration units in the food industry
- Product presentation in shops
- Emergency lighting: anti-panic and escape route lighting

Description:

- More than LEDs, a complete system
- Light in an application-specific colour
- Optimised system efficiency thanks to directional lighting and integrated heat removal
- Complete connection-ready solution with high user-friendliness
- System solutions in combination with TALEXconverter



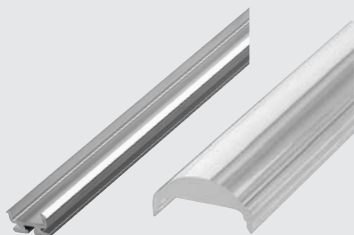
TALEXmodule

Application:

- General illumination
- Design and effect lighting
- Emergency lighting
- Spotlights

Description:

- White light for sophisticated demands
- Wide range of light colours
- Narrow colour tolerance (CIE1964 MacAdam 5 SDCM)
- Strip modules for illumination and accentuation
- Powerful spot modules in white, R, G, B



TALEX accessories

Application:

- Accentuation and effect lighting
- Lighting in shelving and display cabinets
- Emergency lighting
- Spotlights

Description:

- Aluminium profiles for mounting and cooling LED modules
- Plastic covers of various opacity
- Linear lenses and spot lenses for directional lighting
- Installation accessories



TALEX converter for constant current

Application:

- Equipment for constant current LED applications

Description:

- Fixed-output and DALI
- High efficiency
- Compact design
- Build-in and surface-mounted casings
- ENEC certified



TALEX converter for constant voltage

Application:

- Equipment for constant voltage LED applications

Description:

- Fixed-output and DALI
- IP 67 casing
- ENEC/UL certified
- 8, 12 and 24 V versions
- SELV

Standards – Product/function matrix

SIGNAGE

Series	Design	Type	Page	Standards		
				EN 60598-2-1	EN 62031	EN 62471
TALEXchain	TALEXchain standard	NEW TALEXchain P503-2	Page 460		•	•
		NEW TALEXchain P510-SC	Page 461		•	•
		NEW TALEXchain P515-2	Page 462		•	•
		NEW TALEXchain P516-2	Page 463		•	•
	TALEXchain SR	NEW TALEXchain P511-SR	Page 464		•	•
		NEW TALEXchain P516-SR	Page 465		•	•
	TALEXchain CRYSTAL	NEW TALEXchain P511-IP67 CRYSTAL	Page 466		•	•
	TALEXspaceLED	TALEXspaceLED P602 – 6 COB module	Page 467		•	•
TALEXengine	TALEXengine IMAGE	NEW TALEXengine IMAGE	Page 473	•	•	•

TALEXengine and TALEX modules

Series	Design	Type	Page	Standards		
				EN 60598-2-1	EN 62031	EN 62471
TALEXengine	TALEXengine Line	TALEXengine Line	Page 474	•	•	•
	TALEXengine FULMEN	NEW TALEXengine FULMEN	Page 477		•	•
TALEX modules	TALEXeos	TALEXeos P211-2	Page 478		•	•
		TALEXeos P211-3	Page 480		•	•
		TALEXeos P211-3 30°	Page 481		•	•
		TALEXeos P214-3	Page 482		•	•
	TALEXstrip, white	NEW TALEXstrip P105-3/108-3	Page 484		•	•
		NEW TALEXstrip P130-2	Page 485		•	•
	TALEXstrip, white/RGBA	NEW TALEXstrip P110-3/111-3	Page 486		•	•
	TALEXtape	NEW TALEXtape FD101	Page 487		•	•
	TALEXstrip, white concatenated	NEW TALEXstripP521-3	Page 488		•	•
	TALEXstrip, RGB concatenated	TALEXstrip D511-3 RGB basic	Page 489		•	•

Light colour white					Colour				Beam angle				Installation depth			Operation		Protection		Accessories							
Crystal white (CW)	Daylight white (DL)	Neutral white (NW)	Warm white (WW)	Yellow white (YW)	Red (R)	Green (G)	Blue (B)	Amber (A)	Orange (O)	30°	120°	140°	155°	Less than 50 mm	50 – 120 mm	Greater than 120 mm	Constant current	Constant voltage	Against humidity	Type of protection IP 20	Type of protection IP 67	TALEXspacelED Z101 chain	TALEXspacelED Z112 feeder	TALEXspacelED Z121 bridge	TALEXspacelED Z161 mounting plate	TALEXspacelED Z131 protection set	TALEXplate Z201 mounting plate
		•	•		•	•	•	•				•		•			•	•									
		•	•	•	•	•	•					•			•		•	•									
		•	•	•	•	•	•	•				•			•	•	•	•									
		•	•	•	•	•		•	•		•				•		•	•									
		•	•	•	•		•				•					•	•	•									
		•	•	•	•		•	•	•				•				•	•			•						
	•		•	•	•	•	•	•	•				•		•			•	•								
		•	•	•	•		•					•			•		•	•				•	•		•	•	
		•								•					•	•		•	•								•

	Light colour white				Colour				Beam angle						Operation		Accessories						
	Daylight white (DL)	Neutral white (NW)	Warm white (WW)	Gold	Cool meat (CM2)	Red (R)	Green (G)	Blue (B)	Amber (A)	RGB	Up to 30°	30°	60°	90°	140°	Others	Constant current	Constant voltage	Heat sink (required)	Mounting profile	Covers	Lenses	Bracket
	•	•	•									•	•	•				•					•
		•	•								•						•		•				
						•	•	•	•						•	•	•		•	•	•	•	•
	•	•	•	•	•						•				•	•	•		•	•	•	•	•
		•	•									•			•		•		•				
	•	•	•										•		•		•		•			•	
	•	•	•			•	•	•	•						•		•		•	•	•	•	•
	•	•	•	•	•										•		•	•	•	•	•	•	•
	•	•	•			•	•	•	•						•		•		•	•	•	•	•
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	•	•	•												•		•		•	•	•	•	•
										•					•		•		•	•	•	•	•
										•					•		•		•	•	•	•	•

TALEX accessories

TALEX accessories				Material				Colour				Beam angle					
Series	Design	Type	Page	Aluminium	PBT	PMMA	Steel 1.403	Anodised, natural	Matt grey	Transparent	Semi-transparent	White	30°	60°	90°	140°	
TALEX accessories	Slide-in unit/cooling section	TALEXprofile Z200-2	Page 490	•				•									
		TALEXprofile Z201-2	Page 491	•				•									
		End cap for Z201-2	Page 491			•			•								
		TALEXprofile Z22W-2	Page 492	•				•									
		End cap for Z22W-2	Page 492	•				•									
		End cap with cable penetration for Z22W-2	Page 493	•				•									
		TALEXprofile Z202	Page 494	•				•									
		End cap for Z202	Page 494			•			•								
		TALEXprofile Z203	Page 495	•				•									
		End cap for Z203	Page 495			•			•								
	Slide-in unit/cooling section	TALEXprofile Z204	Page 496	•				•									
	Covers	TALEXcover Z220 / Z221 / Z222	Page 497			•					•	•	•				•
		TALEXcover for TALEXprofile Z203	Page 498			•					•	•	•				•
	Linear lens	TALEX lens O200	Page 499			•					•	•		•	•	•	
	Mounting plates	TALEXplate Z161 RZ	Page 500		•								•				
		TALEX Mounting bracket – adjustable	Page 501					•		•							

REFRIGERATION – LED solutions for refrigeration units

Series	Design	Type	Page	Standards		
				EN 60598-2-1	EN 62031	EN 62471
TALEXengine	TALEXengine FREEZE	NEW TALEXengine FREEZE	Page 502	•	•	•
		NEW TALEXengine FREEZE for integration	Page 503	•	•	•
	TALEXengine COOL	NEW TALEXengine COOL	Page 504	•	•	•
		NEW TALEXengine COOL door	Page 505	•	•	•
		NEW TALEXengine COOL door for integration	Page 506	•	•	•
	TALEXengine SERVE	NEW TALEXengine SERVE	Page 507	•	•	•

TALEX emergency

Series	Design	Type	Page	Standards					Colour			Beam angle		
				EN 60598-2-1	EN 60598-2-22	EN 62031	EN 62034	EN 62471	Daylight white (DL)	Red (R)	Green (G)	120°	140°	Asymmetric
TALEXengine	TALEXengine, emergency	NEW TALEXengine EM-AP 003	page 356			•		•	•				•	
		NEW TALEXengine EM-ER 003	page 357			•		•	•					•
TALEXmodule	TALEXstrip, emergency	TALEXstrip ES 08/10/12	page 354			•		•	•	•	•	•	•	
TALEXconverter	TALEXconverter, emergency	EM powerLED BASIC	page 358	•	•									
		EM powerLED ST	page 361	•	•		•							
		EM powerLED PRO EZ-3	page 364	•	•									

	Length					Light colour white				Mounting position		Beam angle		Operation					
	900 mm	1,100 mm	1,200 mm	1,500 mm	1,700 mm	Daylight white (DL)	Neutral white (NW)	Gold	Cool meat (CM 2)	Door frame	Shelf header	Shelf	60°	90°	Side-emitting	Integrated fixing	Fixing accessories	Constant current	Constant voltage
				•	•					•					•	•		•	
	•			•	•	•	•			•					•	•		•	
			•				•		•		•	•	•	•			•		•
				•	•		•		•	•					•	•		•	
		•						•	•		•			•			•		•

TALEXconverter

Series	Design	Type	Page	Standards					
				EN 55015	EN 61000-3-2	EN 61000-3-3	EN 61347-2-13	EN 61547	EN 62384
TALEXconverter	Constant current	TALEXconverter 0001 K010 24 V	Page 508	•	•			•	
		TALEXconverter 0010 K001 8/12/24 V	Page 509	•	•			•	
		TALEXconverter 0010 K301 8/12/24 V	Page 510	•	•			•	
		TALEXconverter 0025 K220 8/12/24 V	Page 511	•	•	•	•	•	•
		TALEXconverter 0100 K240 8/12/24 V 100 VA	Page 512	•	•	•	•	•	•
		TALEXconverter 0025 K201 24 V	Page 513	•	•	•	•	•	•
		TALEXconverter 0025 K210 24 V one4all	Page 514	•	•	•	•	•	•
		TALEXconverter 0025 K211 24 V	Page 515	•	•	•	•	•	•
	Constant voltage	TALEXconverter 0001 K350 1.5 VA 350 mA	Page 516	•	•	•	•	•	•
		TALEXconverter 0005 K350 5 VA 350 mA	Page 517	•	•	•	•	•	•
		TALEXconverter 0010 K350 10 VA 350 mA	Page 518	•	•	•	•	•	•
		TALEXconverter 0015 K350 15 VA 350 mA	Page 519	•	•	•	•	•	•
		TALEXcontrol C350-2 12–24 V DC / 350 mA 8 VA	Page 520				•	•	•
		NEW TALEXcontrol C700 12–24 V DC / 700 mA 16 VA	Page 521	•	•	•	•	•	•
		NEW TALEXcontrol C350 switchDIM	Page 522	•	•	•	•	•	•
		NEW TALEXcontrol C700 switchDIM	Page 523	•	•	•	•	•	•
		NEW TALEXconverter 0030 K500 one4all	Page 524	•	•	•	•	•	•
		TALEXconverter 0006 K700 6 VA 700 mA	Page 525	•	•	•	•	•	•
		TALEXconverter 0010 K700 10 VA 700 mA	Page 526	•	•	•	•	•	•
		TALEXconverter 0030 K700 30 VA 700 mA	Page 527	•	•	•	•	•	•
		TALEXconverter 0018 K350 DALI RGB	Page 528	•	•	•	•	•	•
		NEW TALEXconverter 0060 K350 one4all Ip	Page 529	•	•	•	•	•	•

TALEXcontrol

Series	Design	Type	Page	Standards		
				EN 61347-2-13	EN 61547	EN 62384
TALEXcontrol	PWM dimmer	TALEXcontrol C350 4-channel	Page 530	•	•	•
		TALEXcontrol C001	Page 531	•	•	•
	PWM sequencer	TALEXcontrol C002	Page 532	•	•	•
	DALI 3-channel	TALEXcontrol C003 DALI RGB	Page 533	•	•	•
	PWM amplifier	TALEXcontrol C004	Page 534	•	•	•

[illegible]

Light-emitting diodes, the high-intensity light sources

As their luminous efficacy and efficiency increase, light-emitting diodes are being used for more and more applications. Their success is based on their characteristic properties such as low energy consumption, zero ultra-violet and infra-red radiation, long life, extremely compact dimensions and wide range of colours.

LED lighting and TALEX modules are quickly becoming established as the first choice for accent lighting in retail shops, restaurants and hotels. They are also becoming more popular, particularly the module chains, for illuminated advertising as backlighting for lettering and to highlight outlines.

Light-emitting diodes are now also suitable for general lighting tasks because of recent considerable improvements in their white light quality and luminous efficacy. And with each new generation of LED there will be more milestones to report.

Tridonic can offer high-intensity TALEX modules in the standard colours of daylight white, neutral white and warm white and also in RGB versions to cover all areas of applications, both indoors and outdoors. chip-on-board technology (COB) is used in all the modules. This brings significant benefits in terms of optimum thermal management at high packing densities, compact designs and exceptionally long life.

The range includes individual light points, round, rectangular and strip versions with different numbers of light points, and chains comprising several modules. The special matching operating units, such as converters, amplifiers and sequencers ensure perfect operation and maximum efficiency so that task-specific LED lighting solutions provide the right light either in white or in colour.

The TALEX range from Tridonic is rounded-off by appropriate accessories. These include mounting and cooling sections, plastic covers with transparent, diffuse or semidiffuse characteristics, and lens systems such as linear lens TALEX lens O200 which bundles the light along the longitudinal axis and – irrespective of the individual LED used – ensures a uniform appearance without any shadows.

The range of TALEX modules and matching operating units not only underlines the company's expertise in LED development but also its know-how in precision control. Tridonic is setting standards everywhere – including the LED segment.

TALEX modules

TALEX modules from Tridonic are extremely versatile. They can be used for example as innovative light sources in luminaires, for illuminated advertising as backlighting for lettering and logos and for edge injection on panels. There is an enormous range of potential applications in both dynamic and accent lighting for coloured light-emitting diodes and for LED modules that combine LED in red, green and blue to create perfect RGB mixing effects.

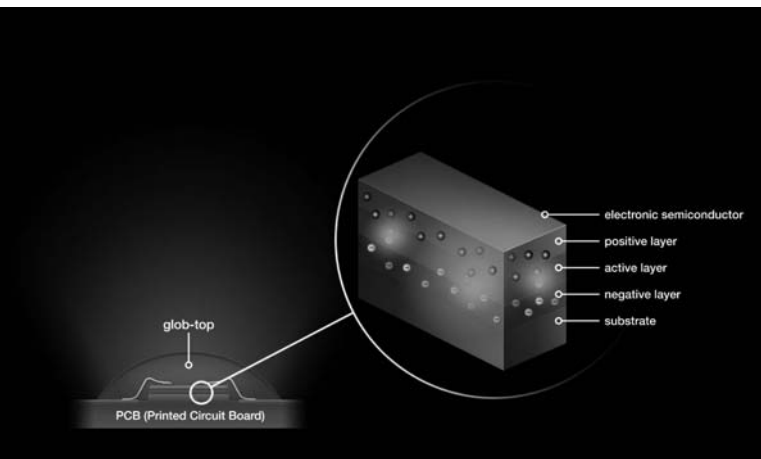
The TALEX range comprises strip modules and module chains with different lengths and luminous fluxes for accenting lines and edges and for side injection. The round and rectangular TALEX modules are designed for surface accent lighting and for use in indicator and orientation lights. They are available in various sizes and with various luminous flux values. Module chains are ideal substitutes for classic neon lighting in illuminated advertising applications. Tridonic can therefore cover all the various tasks that require colour effects or dynamic colour sequences.

The varied selection of TALEX modules from Tridonic, equipped with highly efficient high-intensity light-emitting diodes in white, are now being used more and more in general lighting applications. New technology has been used to achieve considerable improvements in the quality of LED light and its luminous efficacy.

The result is excellent white light homogeneity with very narrow tolerances, a colour rendering index (CRI) R_a in excess of 80 for all colour temperatures, constant colour location of the emitted white light and a life of more than 50,000 hours of operation.

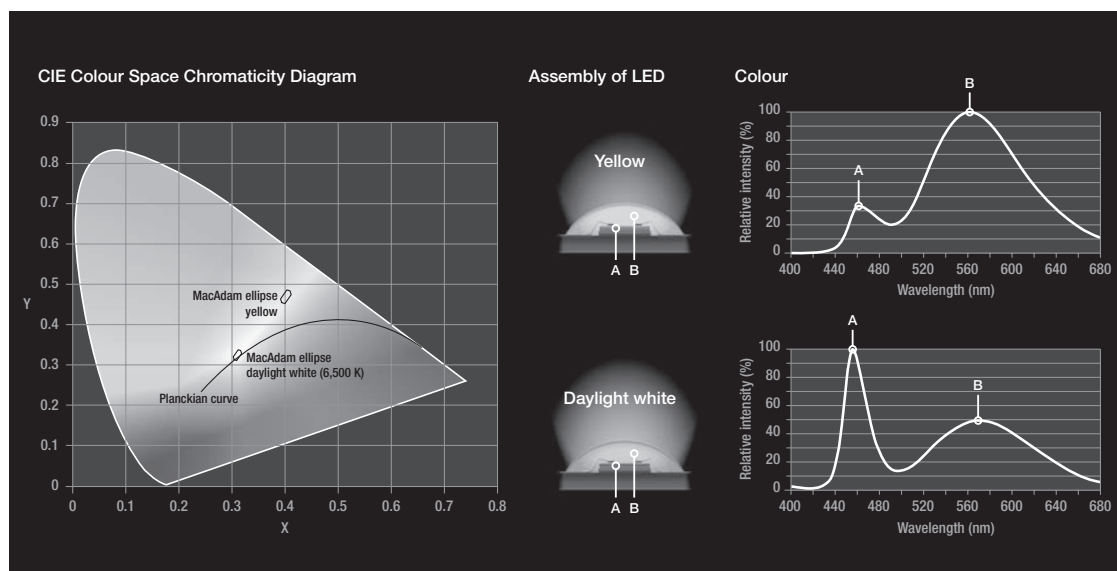
This means that TALEX modules are available with defined colour temperatures of 3,000 K (warm white), 4,200 K (neutral white) and 6,500 K (daylight white) to provide light of impressive uniformity. New encapsulation materials with reduced yellowing are being used to achieve higher luminances and therefore outstanding luminous flux stability.

The 140° wide beam characteristic also helps to ensure homogeneous illumination with a small mounting depth and reduced number of light sources. In addition, the optimised thermal management of chip-on-board technology (COB) reduces the temperature of the light emitting diodes and therefore improves their reliability. The wide range of high-intensity LED modules in white, colour or RGB underlines the power of innovation of Tridonic in this pioneering sector.



The structure of a light-emitting diode (LED) is both simple and clever at the same time. Mounted on a multifunctional circuit board that acts as a heat sink and also supplies power, the LED emits light from a die (shown enlarged in the picture). With the aid of colour conversion in the glob-top (special phosphor mix) it is possible to use a die with blue light to produce daylight white, warm white or any other type of white. Colour stability over time and reproduction of the same colour are particular challenges at which Tridonic excels.

Tridonic uses high-quality phosphors for colour conversion, a process in which white light is produced from blue LED. The use of chemically modified barium orthosilicates with green to reddish-orange light enables specific colour temperatures to be achieved, colour tolerance to be reduced and colour rendering to be improved. Tight monitoring of the coating process is extremely important to ensure reproducibility of the colour conversion process and to reduce the tolerance range considerably.



Colours have a special influence on brand recognition. It is hardly surprising then that great importance is attached to this aspect. The most frequently used method for assessing colour rendering is the MacAdam ellipse. Colour differences can be detected or not, depending on the precision with which the colour quality is specified. The picture shows the colour locations of the MacAdam ellipse for the colours yellow and daylight white in the CIE chromaticity diagram of 1931.

In addition to the colour location in the CIE chromaticity diagram, the intensity of the die and of the glob-top (colour conversion layer) is shown. The Planckian curve defines an area of the chromaticity diagram in which there is no discernible colour difference for the human eye in terms of white light. This phenomenon is used to define the phosphor to ensure the optimum white light impression.

SIGNAGE – Messages in light

A strong brand presence is made more colourful and therefore more striking with LED chains from Tridonic. Their sheer versatility means that they are the ideal medium for successful brands. With their hallmark characteristics, including a wide colour spectrum, high efficiency, durability and unparalleled economy, Tridonic LED chains are rapidly replacing conventional neon lighting in the marketplace. It is hardly surprising then that more and more brand agencies and lighting planners are opting for TALEX modules so they can fully exploit the new-found freedom to design all kinds of lettering, logos and design elements and present them as effectively as possible.

Brand names that shine throughout the world: Brands are there to be seen and to that end Tridonic supplies a comprehensive portfolio of coloured and high-performance white TALEX chain. Not only that but we also supply the appropriate control gear and a special software tool for planning cost-effective solutions. And sure enough, as a market leader in LED signage, Tridonic has systematically put major brand names in the right light.

LED LIGHTING – Bright ideas for architects and planners

With TALEX solutions from Tridonic, light becomes an increasingly significant design element. No matter if it's special effect lighting for facades, spectacular lighting effects for interiors, or functional lighting with the exceptional white light performance of our TALEX modules, Tridonic opens up new options in lighting design for planners and architects. Now they can design whole worlds of brilliant colours, using the power of light to trigger and channel emotions.

The broad colour spectrum of TALEX modules puts light on centre stage in thousands of ways in shops, offices and public buildings. The applications are boundless. TALEX modules add comfort to any workplace or retail setting, and showcase every product in eye-catching style.

REFRIGERATION – LED solutions for refrigeration units

Successful sales is a combination of many factors, not least presentation. Good presentation calls for good lighting. The right light can help arouse emotions and trigger impulse buying. Meat looks fresher, lettuce looks crisper and fine foods look even finer. This has been confirmed by a number of independent studies. Because of their many positive characteristics and possibilities, LEDs are being hailed as multi-talented light source. The TALEXengine LED system from Tridonic provides “cool” light of outstanding quality for displaying chilled merchandise.

It comes in a FREEZE version for freezers, a COOL version for chillers and a SERVE version for self-serve cabinets so fresh produce is displayed in an appetising and energy-efficient manner. TALEXengine FREEZE, COOL and SERVE are sophisticated LED solutions, each tailored to a specific task. Once again, Tridonic demonstrates its expertise in providing the right light for specific applications.

CONVERTER AND CONTROLS – putting LEDs in the right light

Tridonic’s employees put all their energy into creating optimum light and sophisticated control gear. For many years Tridonic has therefore been going beyond what was thought possible, extending its know-how so that a wide range of lamp types can be operated and controlled better than ever before. Conventional and unconventional. That also applies to the latest generations of converters and controls for advanced light-emitting diodes.

However varied and advanced the TALEX modules may be, Tridonic offers appropriate control gear for every imaginable task so revolutionary LED light can develop to its full brilliant potential.

The wide range of specialist LED products available from Tridonic includes converters, PWM dimmers, PWM amplifiers, PWM sequencers, and special versions of control gear that ensure the best possible

results from LEDs in intelligent DALI systems. And all the control units are fully compatible with one another. You can rely on Tridonic – even in complete systems.

Whether you need converters with 8, 12 or 24 V, with constant output currents of 350 or 700 mA, dimmable or non-dimmable, Tridonic is well prepared to meet any requirement. There are even special converters in Ip casings (30 x 21 mm) for installation in linear luminaires.

This means that light-emitting diodes can now also be used in typical fluorescent lamp applications. And it goes without saying that Tridonic control gear can operate all LEDs currently on the market.

The thermally stable behaviour of the Tridonic converters (with a tolerance of only $\pm 5\%$) ensures that the TALEX modules are operated perfectly and therefore enjoy long life at maximum luminous flux. This in turn means very high reliability and safety and also compliance with safety extra-low voltage (SELV) requirements for LED applications. Employees at Tridonic are delighted by the impressive economy of the complete system and the fact that the system protects natural resources.

The simplest form of lighting management

switchDIM applications use the mains voltage as the control signal for the digital dimmable ballasts from Tridonic. This is the simplest form of lighting management, which makes switchDIM uncomplicated, cost-effective and extremely user-friendly. Only simple conventional mains voltage switches are therefore needed to switch and dim the lighting system from several locations. For more information go to page 90.

Technical Information

The latest technical information can be downloaded from the internet: www.tridonic.com, menu “Technical Information”, submenu “Data sheets”

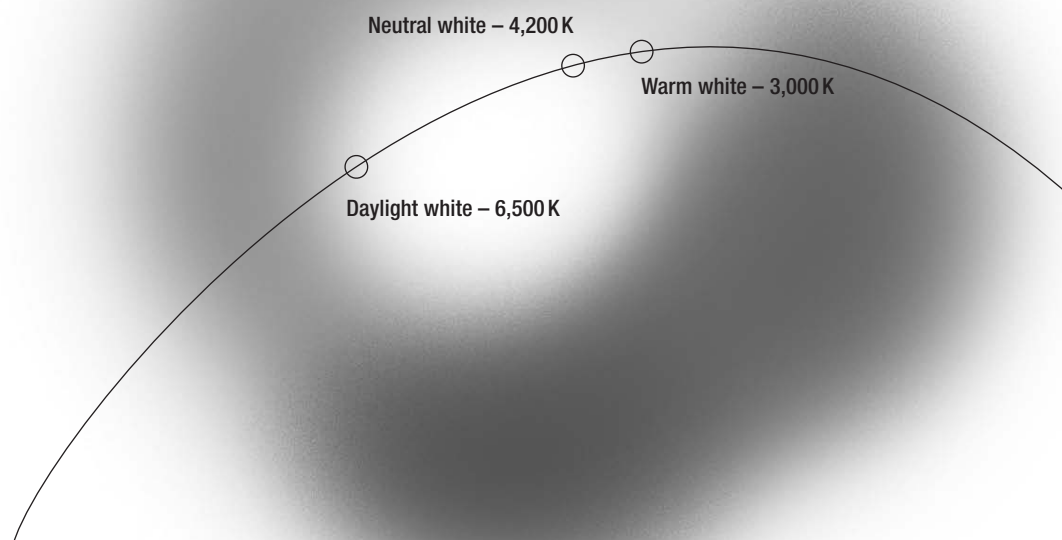
White light quality – When only the best is good enough

As their luminous efficacy and efficiency increase, light-emitting diodes are being used for more and more applications. They are also becoming more popular, particularly for signage, as backlighting for lettering and to highlight outlines. The range comprises strip modules and chains with different lengths and luminous fluxes for side injection and for backlighting logos, lettering and light boxes. Tridonic offers its customers exceptionally high white light consistency in accordance with CIE 1964.

White with many qualities

TALEX chains are ideal substitutes for classic neon lighting in signage applications. With this product range Tridonic can cover all the various tasks that require colour effects or dynamic colour sequences. Tridonic uses high-quality phosphors for colour conversion, a process in which white light is produced from blue LEDs. The use of chemically modified barium orthosilicates with green to reddish-orange light enables specific colour temperatures to be achieved, colour tolerance to be reduced and colour rendering to be improved.

To ensure the reproducibility of colour conversion Tridonic pays special attention to the coating process. The result is excellent white light homogeneity with very narrow tolerances, a colour rendering index CRI (R_a) in excess of 80 for all colour temperatures, constant colour location of the emitted white light and a life of more than 50,000 hours of operation. This means that TALEX chains are available with defined colour temperatures of 3,000 K (warm white), 4,200 K (neutral white) and 6,500 K (daylight white) to provide light of impressive uniformity.



Coordinates and tolerances to CIE 1964

CIE coordinates

Yellow white

	x0	y0
Centre	0.4172	0.4595

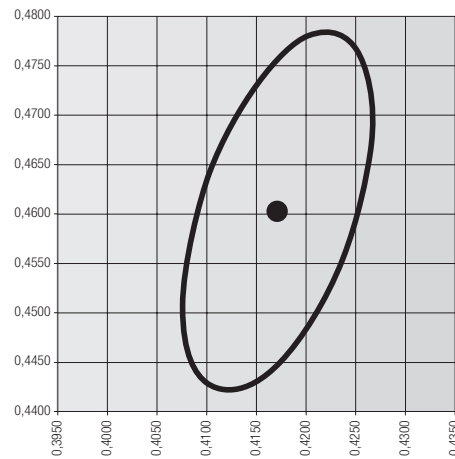
MacAdam ellipse: 5SDCM

Warm white

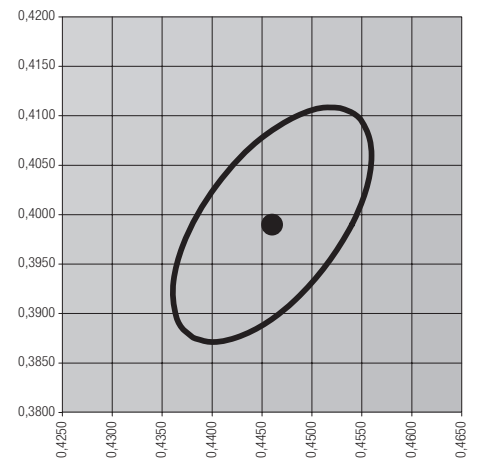
	x0	y0
Centre	0.4460	0.3990

MacAdam ellipse: 5SDCM

Yellow white



Warm white



CIE coordinates

Neutral white

	x0	y0
Centre	0.3770	0.3660

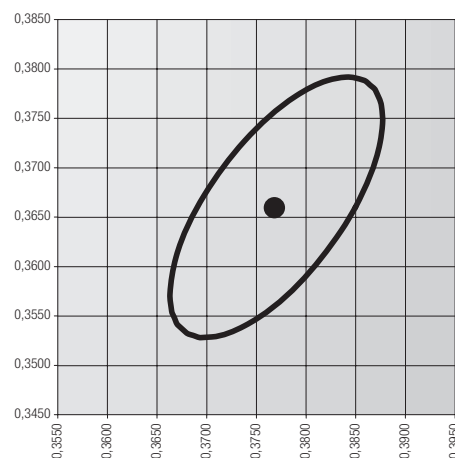
MacAdam ellipse: 5SDCM

Daylight white

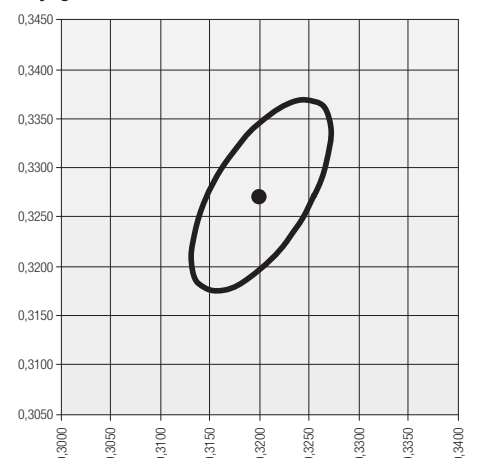
	x0	y0
Centre	0.3200	0.3270

MacAdam ellipse: 5SDCM

Neutral white



Daylight white



CIE coordinates

Gold

	x0	y0
Centre	0.4700	0.4160

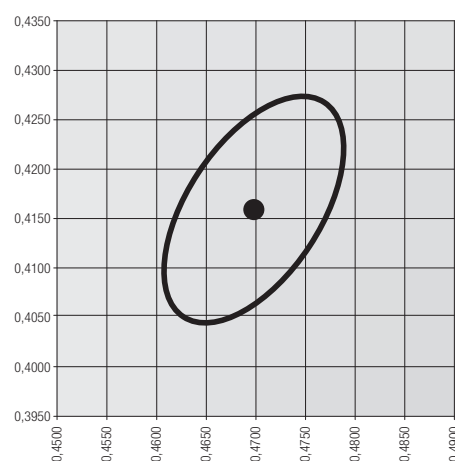
MacAdam ellipse: 5SDCM

Cool meat

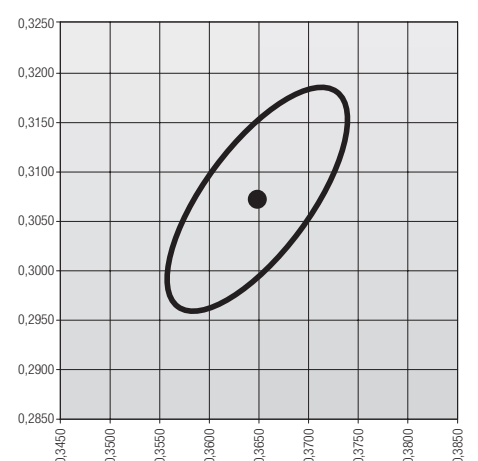
	x0	y0
Centre	0.3630	0.3070

MacAdam ellipse: 5SDCM

Gold



Cool meat



Tolerance field only valid for operation at 700 mA.

RoHS

NEW

TALEXchain P503-2

TALEXchain standard

Product description

- LED module chain for highlighting lines and edges and for backlighting complex contours, letters and symbols in signage applications
 - Edge injection of transparent or diffuse materials
 - High-power LED in chip-on-board technology (COB)
 - Integrated current source to stabilise luminous flux
 - Flexible chain, can be split between any module
 - Beam characteristic: 140°
 - Attached with double-sided adhesive tape
 - Connection: Cable 200 mm, both sides
 - For uniform backlighting: minimum distance to cover 20 – 30 mm
- For product data sheet go to www.tridonic.com, or available on request

Technical data

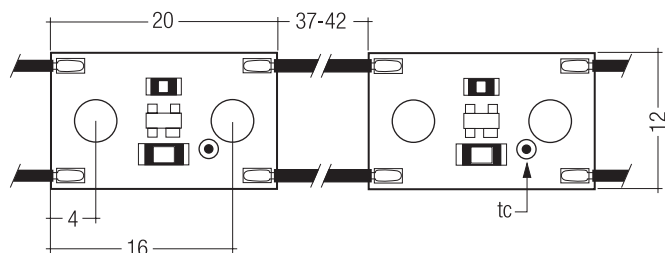
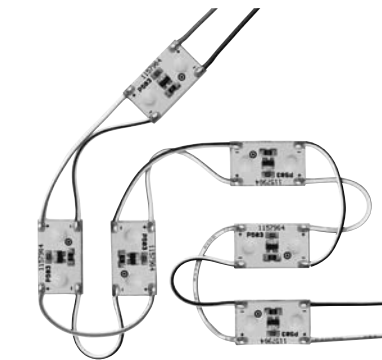
Modules per chain	10
Ambient temperature t_a	-25 ... +50 °C
t_c point ^①	75 °C



Product matrix, page 448

Standards, page 448

Colour temperatures and tolerances, page 458



Ordering data

Colour	Wavelength range	Colour temperature	Type	Article number
2 light points per module				
Daylight white	–	6,500 K	P503-2 DL	89600595
Neutral white	–	4,200 K	P503-2 NW	89600594
Red	619.0 – 629.0 nm	–	P503-2 R	89600585
Green	520.0 – 535.0 nm	–	P503-2 G	89600556
Blue	457.5 – 462.5 nm	–	P503-2 B	89600593
Amber	584.0 – 594.0 nm	–	P503-2 A	89600586

Packaging: 5 pieces/carton

Specific technical data

Type	Typ. luminous flux ^②	Supply voltage DC ^③	Power ^②	Total length
2 light points per module				
P503-2 DL	75 lm	12 V	2.4 W	600 mm
P503-2 NW	60 lm	12 V	2.4 W	600 mm
P503-2 R	95 lm	12 V	4.8 W	600 mm
P503-2 G	60 lm	12 V	2.4 W	600 mm
P503-2 B	12 lm	12 V	2.4 W	600 mm
P503-2 A	85 lm	12 V	4.8 W	600 mm

^① If the max. temperature limits are exceeded, the life of the module will be greatly reduced or the module may be damaged. For the precise position of the t_c point see the above diagram.

^② Tolerance range for optical and electrical data: $\pm 15\%$.

^③ Exceeding the max. operating voltage leads to an overload on the TALEXchain. This may in turn result in a reduction in lifetime or even in destruction.
Tolerance range for the supply voltage: 8 V: +2 V / -0 V; 12 V: +2 V / -0 V.

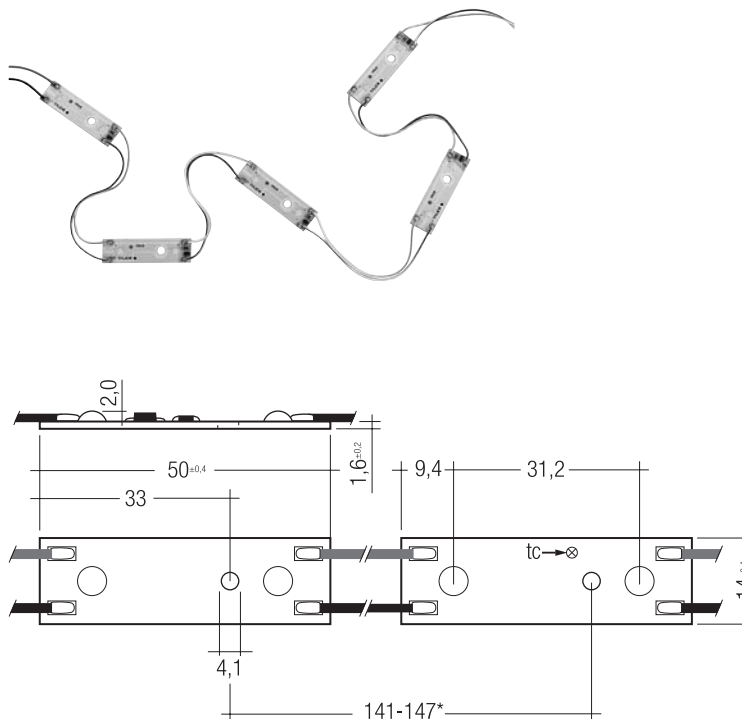
All values at $t_a = 25\text{ °C}$.

Product description

- LED module chain for highlighting lines and edges and for backlighting complex contours, letters and symbols in signage applications
 - Edge injection of transparent or diffuse materials
 - High-power LED in chip-on-board technology (COB)
 - Integrated current source to stabilise luminous flux
 - Flexible chain, can be split between any module
 - Beam characteristic: 140°
 - Attached with M4 plastic screw or double-sided adhesive tape
 - Connection: Cable 200 mm, both sides
 - For uniform backlighting: minimum distance to cover 50 – 60 mm
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Modules per chain	30
Ambient temperature t_a	-25 ... +55 °C
t_c point ^①	75 °C



Ordering data

Colour	Wavelength range	Colour temperature	Type	Article number
2 light points per module				
Daylight white	–	6,500 K	P510-SC DL	89600724
Neutral white	–	4,200 K	P510-SC NW	89600723
Warm white	–	3,000 K	P510-SC WW	89600722
Yellow white	570.0 nm	–	P510-SC YW	89600726
Red	619.0 – 629.0 nm	–	P510-SC R	89600725
Green	520.0 – 535.0 nm	–	P510-SC G	89600720
Blue	457.5 – 462.5 nm	–	P510-SC B	89600721

Packaging: 100 pieces/carton

Specific technical data

Type	Typ. luminous flux ^②	Supply voltage DC ^③	Power ^②	Total length
2 light points per module				
P510-SC DL	360 lm	12 V	12.5 W	4,500 mm
P510-SC NW	315 lm	12 V	12.5 W	4,500 mm
P510-SC WW	300 lm	12 V	12.5 W	4,500 mm
P510-SC YW	405 lm	12 V	12.5 W	4,500 mm
P510-SC R	330 lm	8 V	12.5 W	4,500 mm
P510-SC G	210 lm	12 V	12.5 W	4,500 mm
P510-SC B	72 lm	12 V	12.5 W	4,500 mm

^① If the max. temperature limits are exceeded, the life of the module will be greatly reduced or the module may be damaged. For the precise position of the t_c point see the above diagram.

^② Tolerance range for optical and electrical data: $\pm 15\%$.

^③ Exceeding the max. operating voltage leads to an overload on the TALEXchain. This may in turn result in a reduction in lifetime or even in destruction.
Tolerance range for the supply voltage: 8 V: +2 V / -0 V; 12 V: +2 V / -0 V.

All values at $t_a = 25\text{ °C}$.

TALEXchain P515-2

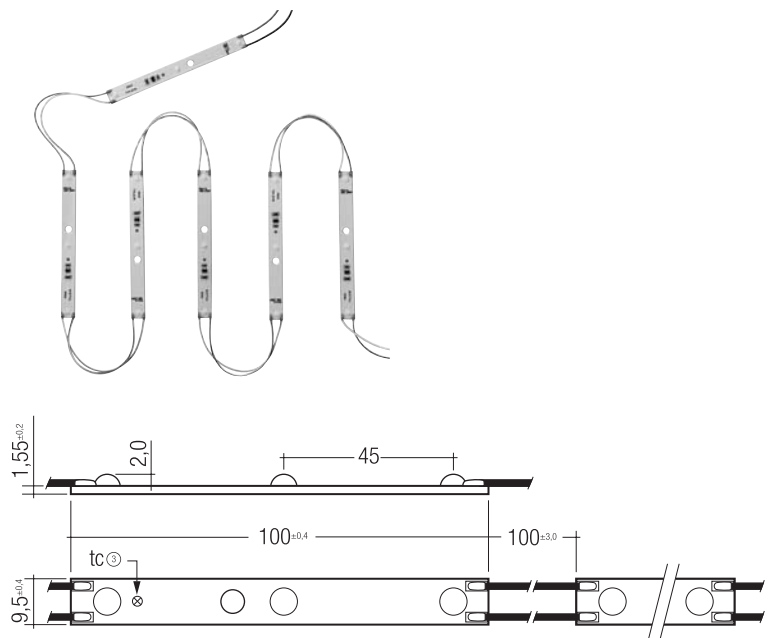
TALEXchain standard

Product description

- LED module chain for highlighting lines and edges and for backlighting complex contours, letters and symbols in signage applications
 - Edge injection of transparent or diffuse materials
 - High-power LED in chip-on-board technology (COB)
 - Integrated current source to stabilise luminous flux
 - Flexible chain, can be split between any module
 - Beam characteristic: 140°
 - Attached with M4 plastic screw or double-sided adhesive tape
 - Connection: Cable 200 mm, both sides
 - For uniform backlighting: minimum distance to cover 50 – 60 mm
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Modules per chain	20
Ambient temperature t_a	-25 ... +55 °C
tc point ^①	75 °C



Ordering data

Colour	Wavelength range	Colour temperature	Type	Article number
3 light points per module				
Daylight white	–	6,500 K	P515-2 DL	89600715
Neutral white	–	4,200 K	P515-2 NW	89600714
Yellow white	570.0 nm	–	P515-2 YW	89600713
Red	619.0 – 629.0 nm	–	P515-2 R	89600589
Green	520.0 – 535.0 nm	–	P515-2 G	89600558
Blue	457.5 – 462.5 nm	–	P515-2 B	89600598
Amber	584.0 – 594.0 nm	–	P515-2 A	89600590

Packaging: 100 pieces/carton

Specific technical data

Type	Typ. luminous flux ^②	Supply voltage DC ^③	Power ^②	Total length
3 light points per module				
P515-2 DL	410 lm	12 V	9.6 W	4,000 mm
P515-2 NW	360 lm	12 V	9.6 W	4,000 mm
P515-2 YW	460 lm	12 V	9.6 W	4,000 mm
P515-2 R	400 lm	12 V	13.2 W	4,000 mm
P515-2 G	300 lm	12 V	9.6 W	4,000 mm
P515-2 B	66 lm	12 V	9.6 W	4,000 mm
P515-2 A	340 lm	12 V	13.2 W	4,000 mm

^① If the max. temperature limits are exceeded, the life of the module will be greatly reduced or the module may be damaged. For the precise position of the tc point see the above diagram.

^② Tolerance range for optical and electrical data: ±15 %.

^③ Exceeding the max. operating voltage leads to an overload on the TALEXchain. This may in turn result in a significant reduction in lifetime or even in destruction.

Tolerance range for the supply voltage: 12 V: +2 V / -0 V.

All values at $t_a = 25$ °C.

TALEXchain P516-2

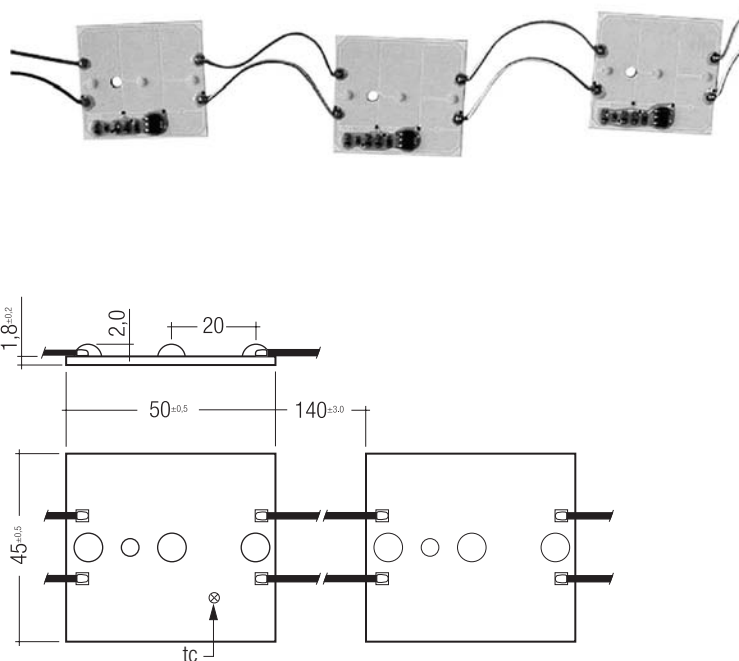
TALEXchain standard

Product description

- LED module chain for backlighting surfaces, symbols and lettering in signage applications
 - Ideal for signage and advertising surfaces with depths greater than 120 mm
 - High luminance possible with a small number of modules
 - High-power LED in chip-on-board technology (COB)
 - Integrated current source to stabilise luminous flux
 - Flexible chain, can be split between any module
 - Beam characteristic: 140°
 - Attached with M4 plastic screw or double-sided adhesive tape
 - Connection: Cable 200 mm, both sides
 - For uniform backlighting: minimum distance to cover 120 mm
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Modules per chain	12
Ambient temperature t_a	-25 ... +45 °C
t_c point ^①	75 °C



Ordering data

Colour	Wavelength range	Colour temperature	Type	Article number
3 light points per module				
Daylight white	–	6,500 K	P516-2 DL	89600768
Neutral white	–	4,200 K	P516-2 NW	89600769
Yellow white	570 nm	–	P516-2 YW	89600591
Blue	455 – 465 nm	–	P516-2 B	89600456

Packaging: 100 pieces/carton

Specific technical data

Type	Typ. luminous flux ^②	Supply voltage DC ^③	Power ^②	Total length
3 light points per module				
P516-2 DL	840 lm	12 V	23 W	2,200 mm
P516-2 NW	660 lm	12 V	23 W	2,200 mm
P516-2 YW	920 lm	12 V	23 W	2,200 mm
P516-2 B	120 lm	12 V	23 W	2,200 mm

^① If the max. temperature limits are exceeded, the life of the module will be greatly reduced or the module may be damaged. For the precise position of the t_c point see the above diagram.

^② Tolerance range for optical and electrical data: ±15 %.

^③ Exceeding the max. operating voltage leads to an overload on the TALEXchain. This may in turn result in a significant reduction in lifetime or even in destruction.
Tolerance range for the supply voltage: 12 V: +2 V / -0 V.

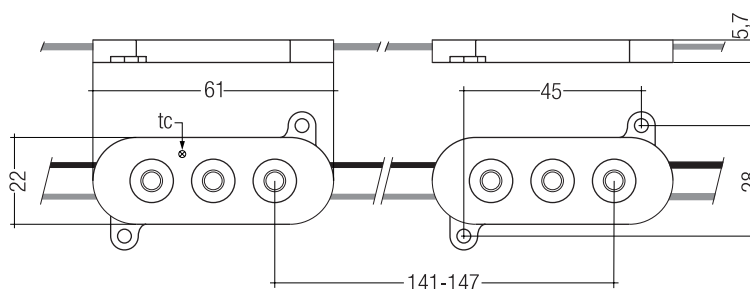
All values at $t_a = 25$ °C.

TALEXchain P511-SR

TALEXchain SR

Product description

- LED module chain for highlighting lines and edges and for backlighting complex contours, letters and symbols in signage applications
 - Edge injection of transparent or diffuse materials
 - Reel pack
 - LED module with plastic casing and strain relief to prevent mechanical loads on electronic components and glob-top
 - Attached with M4 metal screw or premounted double-sided adhesive tape
 - High-power LED in chip-on-board technology (COB)
 - Integrated current source to stabilise luminous flux
 - Flexible chain, can be split between any module
 - Beam characteristic: 120°
 - Connection: Cable 200 mm, both sides
 - For uniform backlighting: minimum distance to cover 50 – 60 mm
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Ambient temperature t_a	-25 ... +55 °C
tc point ^①	65 °C



Product matrix, page 448

Standards, page 448

Colour temperatures and tolerances, page 458

Ordering data

Colour	Wavelength range	Colour temperature	Type	Article number
3 light points per module				
Daylight white	–	6,500 K	P511-SR DL	89600803
Warm white	–	3,000 K	P511-SR WW	89600801
Yellow white	570 nm	–	P511-SR YW	89600802
Red	619 – 629 nm	–	P511-SR R	89600798
Amber	584 – 594 nm	–	P511-SR A	89600799
Orange	600 – 610 nm	–	P511-SR O	89600800

Packaging: 18 Rolls/Carton

Specific technical data

Type	Modules per roll	Typ. luminous flux per roll ^②	Supply voltage DC ^③	Output per roll ^②	Total length per roll
3 light points per module					
P511-SR DL	5 x 30	5 x 525 lm	12 V	5 x 12.5 W	5 x 4,500 mm
P511-SR WW	5 x 30	5 x 440 lm	12 V	5 x 12.5 W	5 x 4,500 mm
P511-SR YW	5 x 30	5 x 540 lm	12 V	5 x 12.5 W	5 x 4,500 mm
P511-SR R	5 x 30	5 x 375 lm	12 V	5 x 12.5 W	5 x 4,500 mm
P511-SR A	5 x 30	5 x 378 lm	12 V	5 x 12.5 W	5 x 4,500 mm
P511-SR O	5 x 30	5 x 470 lm	12 V	5 x 12.5 W	5 x 4,500 mm

^① If the max. temperature limits are exceeded, the life of the module will be greatly reduced or the module may be damaged. For the precise position of the tc point see the above diagram.

^② Tolerance range for optical and electrical data: ±15 %.

^③ Exceeding the max. operating voltage leads to an overload on the TALEXchain. This may in turn result in a significant reduction in lifetime or even in destruction.
Tolerance range for the supply voltage: 12 V: +2 V / -0 V.

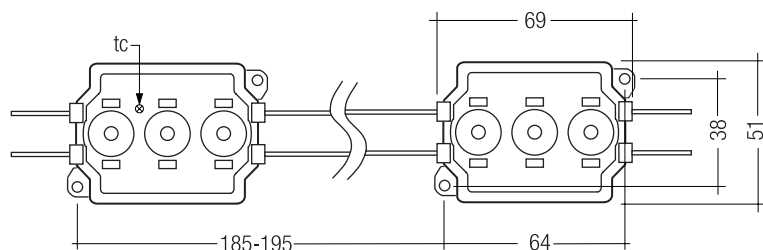
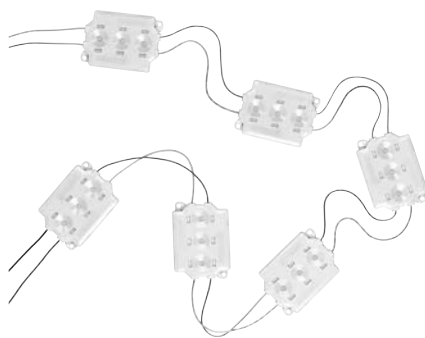
All values at $t_a = 25\text{ °C}$.

TALEXchain P516-SR

TALEXchain SR

Product description

- LED module chain for backlighting surfaces, symbols and lettering in signage applications
 - Ideal for signage and advertising surfaces with depths greater than 120 mm
 - High luminance possible with a small number of modules
 - Reel pack
 - LED module with plastic casing and strain relief to prevent mechanical loads on electronic components and glob-top
 - Attached with M4 metal screw or premounted double-sided adhesive tape
 - High-power LED in chip-on-board technology (COB)
 - Integrated current source to stabilise luminous flux
 - Flexible chain, can be split between any module
 - Beam characteristic: 120°
 - Connection: Cable 200 mm, both sides
 - For uniform backlighting: minimum distance to cover 120 mm
- For product data sheet go to www.tridonic.com, or available on request



Ordering data

Colour	Wavelength range	Colour temperature	Type	Article number
3 light points per module				
Daylight white	–	6,500 K	P516-SR DL	89600806
Neutral white	–	4,200 K	P516-SR NW	89600805
Yellow white	570 nm	–	P516-SR YW	89600807
Blue	450 – 460 nm	–	P516-SR B	89600804

Packaging: 18 Rolls/Cartron

Technical data

Ambient temperature t_a	-25 ... +45 °C
tc point ^①	65 °C



Product matrix, page 448

Standards, page 448

Colour temperatures and tolerances, page 458

Specific technical data

Type	Modules per roll	Typ. luminous flux per roll ^②	Supply voltage DC ^③	Output per roll ^②	Total length per roll
3 light points per module					
P516-SR DL	5 x 12	5 x 840 lm	12 V	5 x 23 W	5 x 2,200 mm
P516-SR NW	5 x 12	5 x 660 lm	12 V	5 x 23 W	5 x 2,200 mm
P516-SR YW	5 x 12	5 x 920 lm	12 V	5 x 23 W	5 x 2,200 mm
P516-SR B	5 x 12	5 x 120 lm	12 V	5 x 23 W	5 x 2,200 mm

^① If the max. temperature limits are exceeded, the life of the module will be greatly reduced or the module may be damaged. For the precise position of the tc point see the above diagram.

^② Tolerance range for optical and electrical data: ±15 %.

^③ Exceeding the max. operating voltage leads to an overload on the TALEXchain. This may in turn result in a significant reduction in lifetime or even in destruction.
Tolerance range for the supply voltage: 12 V: +2 V / -0 V.

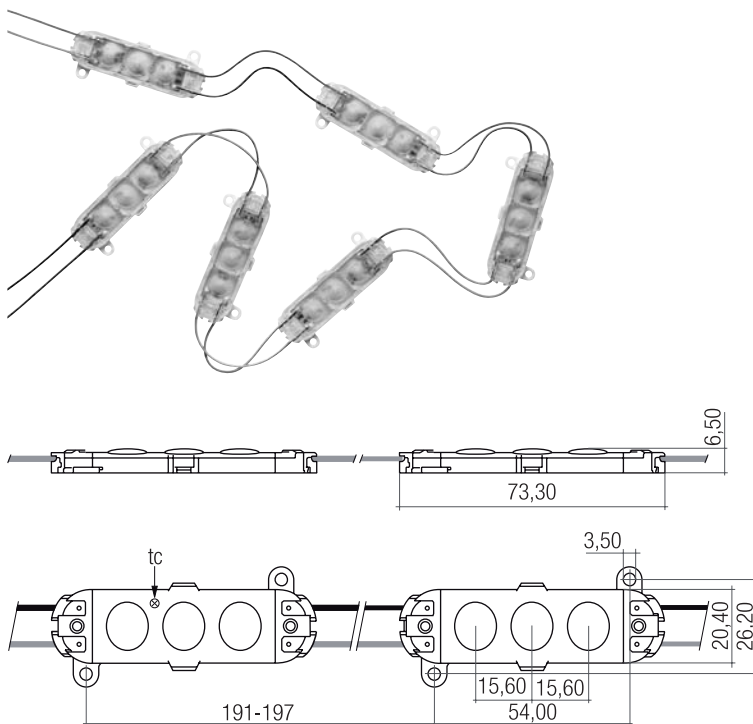
All values at $t_a = 25$ °C.

TALEXchain P511-IP67 CRYSTAL

TALEXchain CRYSTAL

Product description

- LED module chain for highlighting lines and edges and for backlighting complex contours, letters and symbols in signage applications
 - Optimised for use in signage (lettering, surface backlighting) where a high type of protection is needed
 - Beam characteristic: 155°
 - Reel pack
 - LED module with plastic casing and strain relief with IP67 protection
 - High-power LED in chip-on-board technology (COB)
 - Integrated current source to stabilise luminous flux
 - Flexible chain, can be split between any module
 - Type of protection IP67
 - Attached with M4 metal screw or premounted double-sided adhesive tape
 - Connection: Cable 200 mm, both sides
 - For uniform backlighting: minimum distance to cover 50 – 60 mm
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Ambient temperature t_a	-25 ... +55 °C
tc point ^①	65 °C



Product matrix, page 448

Standards, page 448

Colour temperatures and tolerances, page 458

Ordering data

Colour	Wavelength range	Colour temperature	Type	Article number
3 light points per module				
Crystal white	–	6,500 K	P511-IP67 CW	89600813
Neutral white	–	4,200 K	P511-IP67 NW	89600816
Warm white	–	3,000 K	P511-IP67 WW	89600815
Yellow white	570 nm	–	P511-IP67 YW	89600814
Red	626 – 636 nm	–	P511-IP67 R	89600810
Green	525 – 540 nm	–	P511-IP67 G	89600808
Blue	458 – 463 nm	–	P511-IP67 B	89600809
Amber	584 – 594 nm	–	P511-IP67 A	89600811
Orange	600 – 610 nm	–	P511-IP67 O	89600812

Packaging: 18 Rolls/Carton

Specific technical data

Type	Modules per roll	Typ. luminous flux per roll ^②	Supply voltage DC ^③	Output per roll ^②	Total length per roll
3 light points per module					
P511-IP67 CW	4 x 30	4 x 720 lm	12 V	4 x 14.4 W	4 x 6,000 mm
P511-IP67 NW	4 x 30	4 x 525 lm	12 V	4 x 14.4 W	4 x 6,000 mm
P511-IP67 WW	4 x 30	4 x 510 lm	12 V	4 x 14.4 W	4 x 6,000 mm
P511-IP67 YW	4 x 30	4 x 690 lm	12 V	4 x 14.4 W	4 x 6,000 mm
P511-IP67 R	4 x 30	4 x 264 lm	12 V	4 x 14.4 W	4 x 6,000 mm
P511-IP67 G	8 x 15	8 x 180 lm	12 V	8 x 7.2 W	8 x 3,000 mm
P511-IP67 B	4 x 30	4 x 96 lm	12 V	4 x 14.4 W	4 x 6,000 mm
P511-IP67 A	4 x 30	4 x 480 lm	12 V	4 x 14.4 W	4 x 6,000 mm
P511-IP67 O	4 x 30	4 x 510 lm	12 V	4 x 14.4 W	4 x 6,000 mm

^① If the max. temperature limits are exceeded, the life of the module will be greatly reduced or the module may be damaged. For the precise position of the tc point see the above diagram.

^② Tolerance range for optical and electrical data: ±15 %.

^③ Exceeding the max. operating voltage leads to an overload on the TALEXchain. This may in turn result in a significant reduction in lifetime or even in destruction.

Tolerance range for the supply voltage: 12 V: +2 V / -0 V.

All values at $t_a = 25 °C$.

RoHS

TALEXspaceLED P602-6

TALEXspaceLED

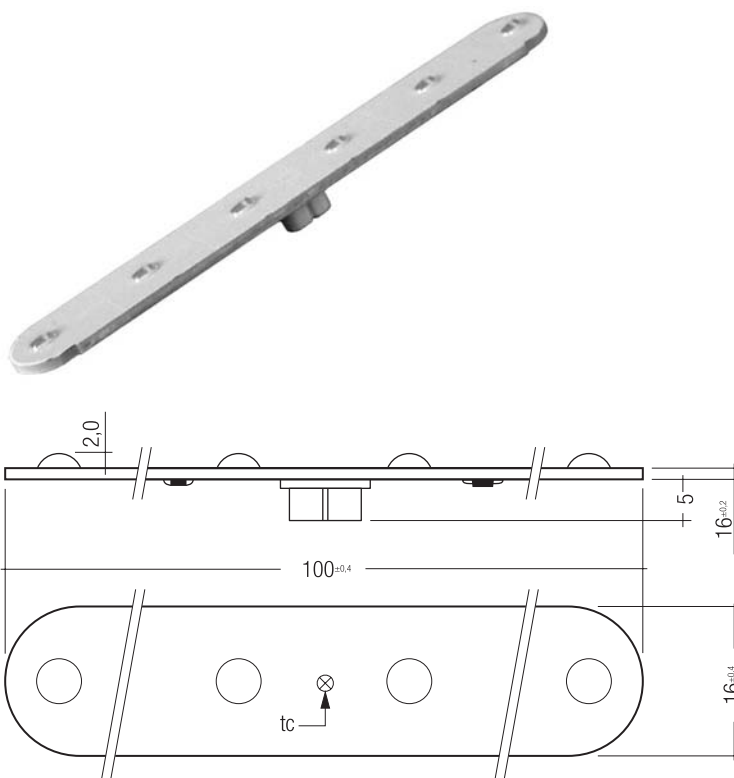
Product description

- LED module chain for highlighting lines and edges and for backlighting complex contours, letters and symbols in signage applications
- Suitable for LED profile Z202 / 203
- Simple installation (snap-on, no tools required)
- High-power LED in chip-on-board technology (COB)
- Wide 140° distribution of light for uniform illumination
- Constant current source for balancing out fluctuations in the LED forward voltage

→ For product data sheet go to www.tridonic.com, or available on request

Technical data

Ambient temperature t_a	-25 ... +55 °C
t_c point ^①	75 °C
Dimensions LxW	100 x 16 mm



Ordering data

Colour	Wavelength range	Colour temperature	Type	Article number
6 light points per module				
Daylight white	–	6,500 K	P602 DL	89600110
Neutral white	–	4,200 K	P602 NW	89600108
Warm white	–	3,000 K	P602 WW	89600239
Red	624 – 630 nm	–	P602 R	89600104
Blue	460 – 465 nm	–	P602 B	89600107

Packaging: 50 pieces/carton

Specific technical data

Type	Typ. luminous flux	Supply voltage DC	Power
6 light points per module			
P602 DL	21.4 lm	12 V	1 W
P602 NW	19.0 lm	12 V	1 W
P602 WW	14.2 lm	12 V	1 W
P602 R	12.9 lm	8 V	1 W
P602 B	3.3 lm	12 V	1 W

^① If the max. temperature limits are exceeded, the life of the module will be greatly reduced or the module may be damaged.
For the precise position of the t_c point see the above diagram. Tolerance range for optical and electrical data: ±15 %.

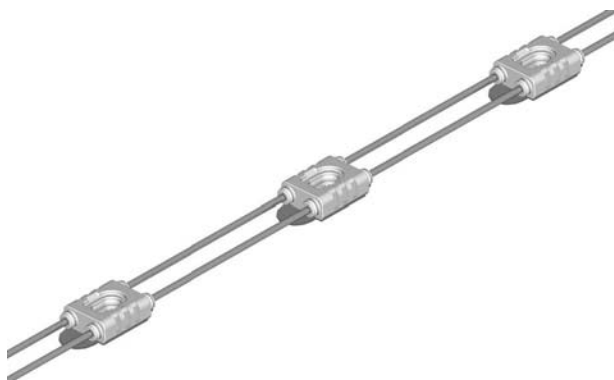
All values at $t_a = 25$ °C.

ACCES-
SORIES

TALEXspaceLED Z101

Product description

- Chain 10 m ready made with double-sided adhesive tape



Ordering data

Weight	Type	Article number
0.348 kg	Z101	88711762

Packaging: 1 pieces/carton

ACCES-
SORIES

TALEXspaceLED Z112

Product description

- Feed 1 m, flexible supply cable



Ordering data

Weight	Type	Article number
0.02 kg	Z112	88712073

Packaging: 5 pieces/carton

ACCES-
SORIES

TALEXspaceLED Z121

Product description

- Bridge 0.1 m for connecting 2 cable strings



Ordering data

Weight	Type	Article number
0.011 kg	Z121	88712119

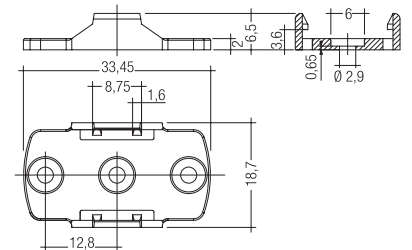
Packaging: 5 pieces/carton

ACCES-
SORIES

TALEXspaceLED Z161

Product description

- Mounting plate, available as an option



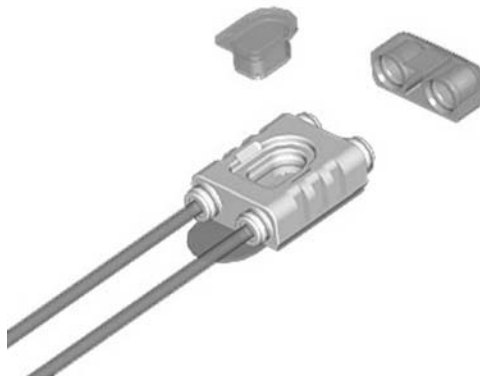
Ordering data

Weight	Type	Article number
0.002 kg	Z161	88712147

Packaging: 100 pieces/carton

Product description

- Cover set, ensures complete protection against moisture



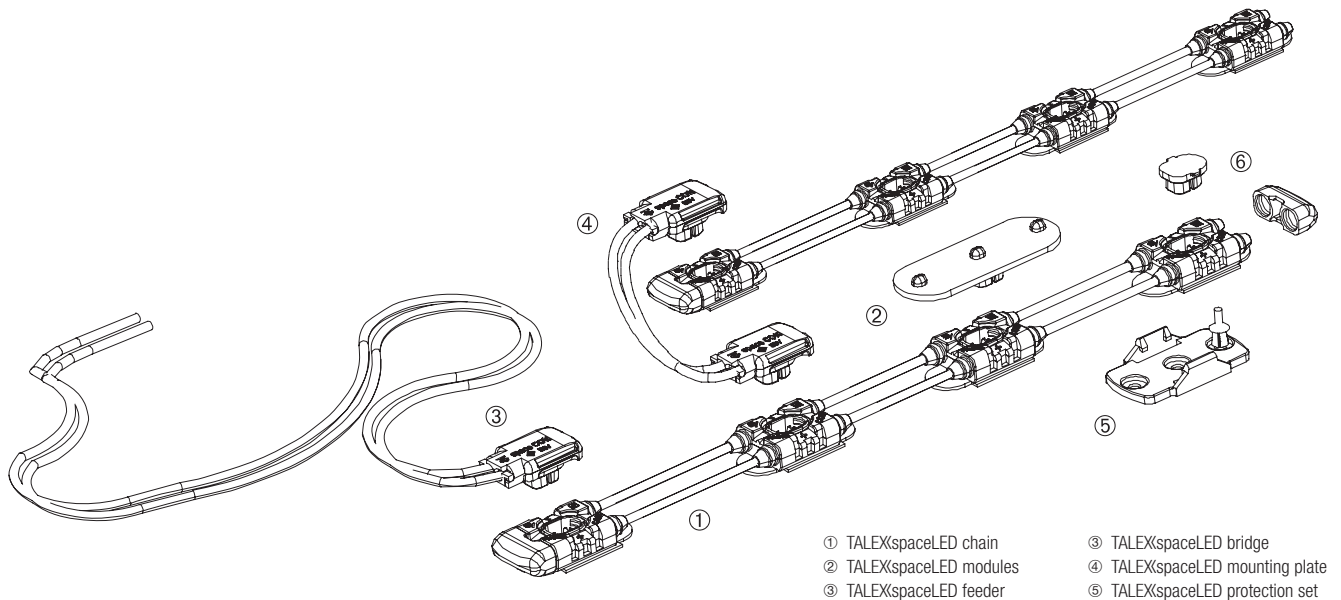
Ordering data

Weight	Type	Article number
0.008 kg	Z131	88712067

Packaging: 1 pieces/carton

TALEXspaceLED

System overview



Applications

- TALEX module chain system for highlighting lines and edges and for backlighting letters and symbols
- Backlighting of complex contours
- Optimised for use in illuminated advertising (lettering, surface)
- Edge lighting of transparent or diffuse materials

Technical data

Max. current	6 A
Max. voltage	42 V AC / 60 V DC (SELV)
System wattage	360 VA max.
Wire cross section	2 x 0.5 mm ²
Protection rating	IP 54
Ambient temperature	-25 → +54 °C
Materials	protection set PE LD
	all other plastic parts PBT
	wiring insulation PVC
	inserts tinned copper

Highlights

- Uniform illumination from a small number of TALEX modules
- Individually adjustable luminance
- Minimal heat generation
- High reliability and safety
- Protection rating IP 54 for contacts
- High current-carrying capacity
- Flexibility
- No tools required for installing
- Simple replacement of the modules

Notes

- For uniform backlighting: minimum distance to the cover > 40 mm
- Reversing polarity may damage the TALEXspaceLED
- None of the components of the TALEXspaceLED (substrate, LED, electronic components, etc.) may be exposed to tensile or compressive stresses
- For further information on installation please refer to "TALEX installation instructions and guidelines" (art. no. 24138887)

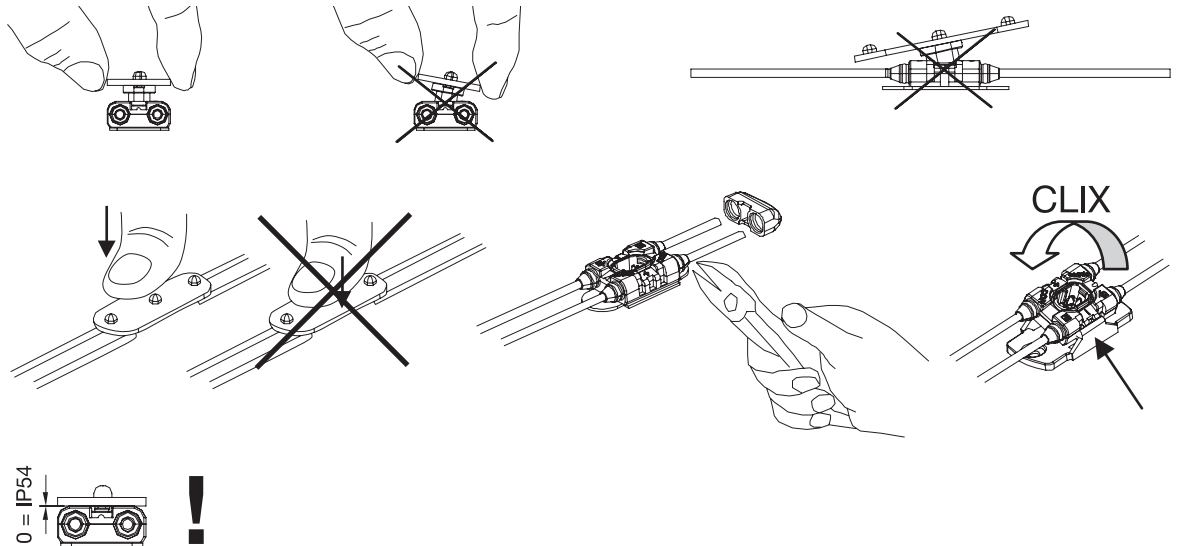
Properties

- High-power LED in COB technology
- Colour temperature white:
 - Warm white (WW): 3,000 K
 - Neutral white (NW): 4,200 K
 - Daylight white (DL): 6,500 K
- Integrated current source to stabilise luminous flux
- Coated with protective varnish for applications where condensation occurs
- Broad 140° light distribution for uniform illumination
- Fixing: pre-mounted double sided adhesive tape, TALEXspaceLED mounting plate
- Identification of polarity: + red / - black
- Pluggable

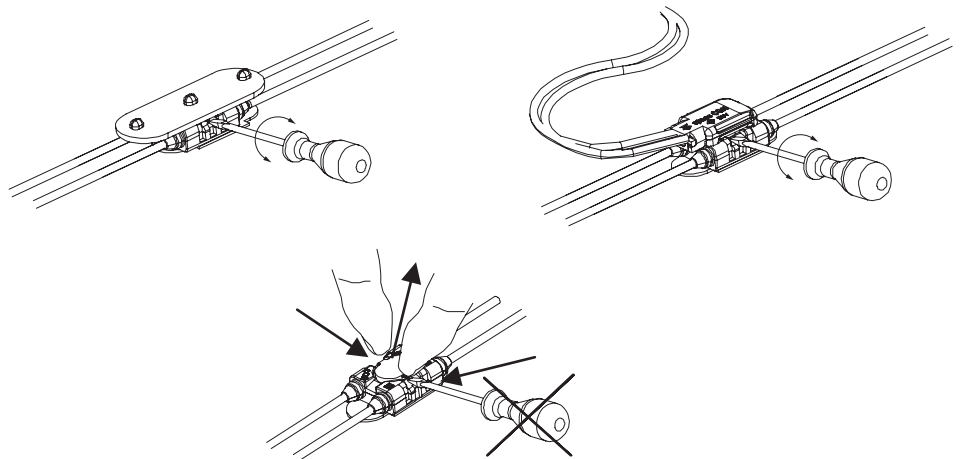
TALEXspaceLED

Installation and safety instructions

Installation



Disassembling



Installation instructions

- The TALEXspaceLED basic chain Z101 is attached with special adhesive tape. Mounting surfaces must be clean, dry and free from grease. Mounting should take place at room temperature; press adhesive surfaces firmly together; full adhesion is achieved after 2 hours.
- Do not twist or tip the circuit boards when inserting the TALEXspaceLED modules in the sockets or removing them from the sockets.
- Insert a screwdriver at the side to remove the TALEXspaceLED modules and the TALEXspaceLED connectors.

Safety instructions

- Permitted only for voltages up to 42 V_{AC} and 60 V_{DC} (SELV circuits)
- Do not exceed the permitted current of 6 A
- Operate only with intrinsically safe control gear
- Provide end caps and blanking covers over system ends and open sockets

IP 20  RoHS

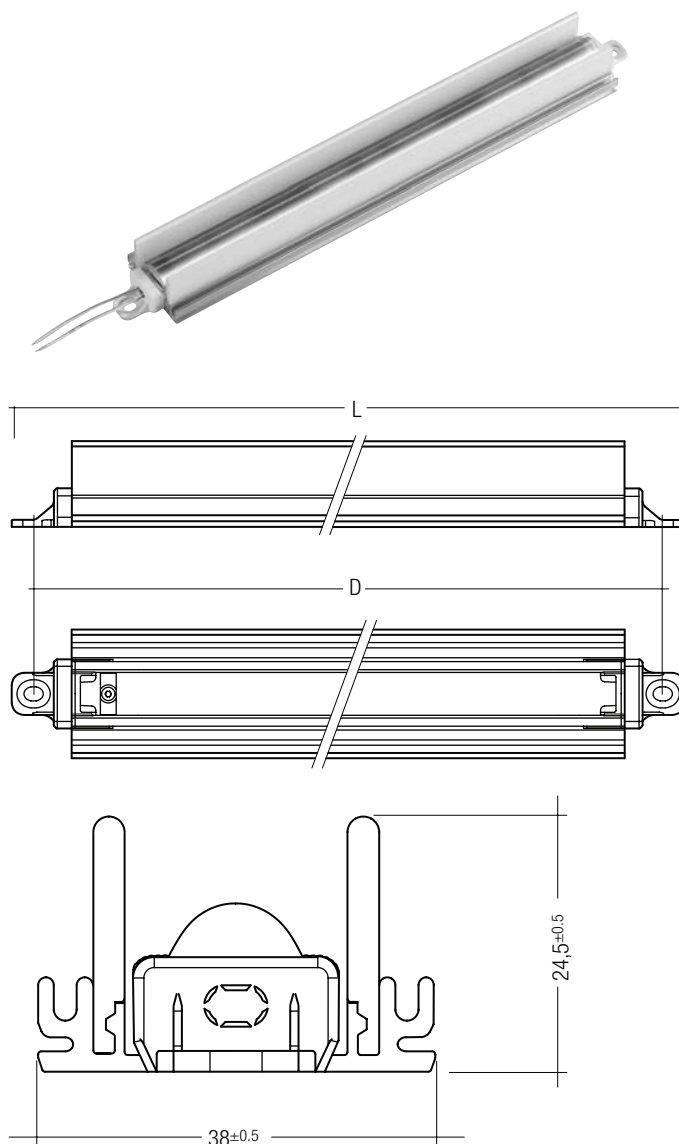
TALEXengine IMAGE
TALEXengine IMAGE

Product description

- Complete solution with standard cable
 - High efficiency thanks to directional lighting and integrated heat removal
 - High quality of light thanks to a combination of COB LEDs and optics
 - Safety extra low voltage (SELV)
 - Simple installation
 - Connection: Cable 55 mm
 - Cooling section made of anodised, extruded aluminium
 - End caps made of PBT
 - Linear lenses made of PMMA
 - Safety extra low voltage (SELV), protection class 3
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Supply current DC	700 mA
Ambient temperature t_a	-25 ... +45 °C
Max. surface temperature on profile	65 °C
Type of protection	IP20
Protection class	III



Ordering data

Length L	Colour	Type	Article number
1,075 mm	Daylight white	LB1075 12P211-3 DL	89600927
445 mm	Daylight white	LB445 5P211-3 DL	89600945
265 mm	Daylight white	LB265 3P211-3 DL	89600946

Packaging: 1 pieces

Specific technical data

Type	Hole spacing D	Beam angle	Typ. luminous flux ^①	Power ^②
LB1075 12P211-3 DL	1,063 mm	30°	1,200 lm	29.4 W
LB445 5P211-3 DL	432 mm	30°	500 lm	12.3 W
LB265 3P211-3 DL	253 mm	30°	300 lm	7.4 W

^① Tolerance range for optical data: ±15 %.

^② Tolerance range for electrical data: ±15 %.

All values at $t_a = 25$ °C.

IP 20  RoHS**TALEXengine Line**

TALEXengine Line

Product description

- For displaying products on shelves and in cabinets
- For use in luminaires
- Wide range of products
- Complete solution with standard cable and mounting profile, ready for connection
- High efficiency thanks to directional lighting and integrated heat removal
- High quality of light thanks to a combination of COB LEDs and optics
- Long life: 35,000 hours (for a 70 % drop in luminous flux and tc point temperature of 45 °C)
- Safety extra low voltage (SELV)
- Simple installation with mounting plate
- Can be expanded with extensive accessories (optional)
- Dimmable by pulse width modulation (PWM)
- Connecting cable: H03VVH, white, length: 1 m
- Cross-section of connecting cable: 2 x 0.75 mm²
- Cooling section made of anodised, extruded aluminium
- End caps made of aluminium
- Linear lenses made of PMMA
- Safety extra low voltage (SELV), protection class 3

→ For product data sheet go to www.tridonic.com, or available on request

Technical data

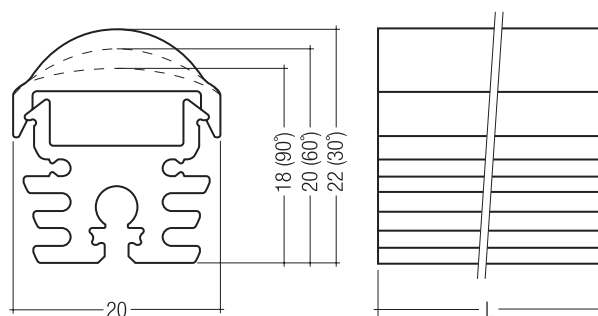
Supply voltage DC ^①	24 V
Power input per m	18 W
Ambient temperature t _a	-30 ... +30 °C
Max. surface temperature on profile	60 °C
tc point, profile	60 °C
Type of protection	IP20
Protection class	III



Product matrix, page 448

Standards, page 448

Colour temperatures and tolerances, page 458

**Ordering data**

Colour temperature	Colour	Lens	Type	Article number
Length 600 mm				
6,500 K	Daylight white	30°	LE600 4P130-2 DL – 30°	89600990
6,500 K	Daylight white	60°	LE600 4P130-2 DL – 60°	89601002
6,500 K	Daylight white	90°	LE600 4P130-2 DL – 90°	89601012
4,200 K	Neutral white	30°	LE600 4P130-2 NW – 30°	89600994
4,200 K	Neutral white	60°	LE600 4P130-2 NW – 60°	89601005
4,200 K	Neutral white	90°	LE600 4P130-2 NW – 90°	89601017
3,000 K	Warm white	30°	LE600 4P130-2 WW – 30°	89600998
3,000 K	Warm white	60°	LE600 4P130-2 WW – 60°	89601008
3,000 K	Warm white	90°	LE600 4P130-2 WW – 90°	89601021
Length 1000 mm				
6,500 K	Daylight white	30°	LE1000 6P130-2 DL – 30°	89600991
6,500 K	Daylight white	60°	LE1000 6P130-2 DL – 60°	89601003
6,500 K	Daylight white	90°	LE1000 6P130-2 DL – 90°	89601013
4,200 K	Neutral white	30°	LE1000 6P130-2 NW – 30°	89600995
4,200 K	Neutral white	60°	LE1000 6P130-2 NW – 60°	89601006
4,200 K	Neutral white	90°	LE1000 6P130-2 NW – 90°	89601018
3,000 K	Warm white	30°	LE1000 6P130-2 WW – 30°	89600999
3,000 K	Warm white	60°	LE1000 6P130-2 WW – 60°	89601009
3,000 K	Warm white	90°	LE1000 6P130-2 WW – 90°	89601022
Length 1200 mm				
6,500 K	Daylight white	30°	LE1200 7P130-2 DL – 30°	89600992
6,500 K	Daylight white	60°	LE1200 7P130-2 DL – 60°	89601004
6,500 K	Daylight white	90°	LE1200 7P130-2 DL – 90°	89601014
4,200 K	Neutral white	30°	LE1200 7P130-2 NW – 30°	89600996
4,200 K	Neutral white	60°	LE1200 7P130-2 NW – 60°	89600905
4,200 K	Neutral white	90°	LE1200 7P130-2 NW – 90°	89601019
3,000 K	Warm white	30°	LE1200 7P130-2 WW – 30°	89601000
3,000 K	Warm white	60°	LE1200 7P130-2 WW – 60°	89601010
3,000 K	Warm white	90°	LE1200 7P130-2 WW – 90°	89601023

Packaging: 25 pieces

Ordering data

Colour temperature	Colour	Lens	Type	Article number
Length 1500 mm				
6,500 K	Daylight white	30°	LE1500 9P130-2 DL – 30°	89600993
6,500 K	Daylight white	60°	LE1500 9P130-2 DL – 60°	89601016
6,500 K	Daylight white	90°	LE1500 9P130-2 DL – 90°	89601015
4,200 K	Neutral white	30°	LE1500 9P130-2 NW – 30°	89600997
4,200 K	Neutral white	60°	LE1500 9P130-2 NW – 60°	89601007
4,200 K	Neutral white	90°	LE1500 9P130-2 NW – 90°	89601020
3,000 K	Warm white	30°	LE1500 9P130-2 WW – 30°	89601001
3,000 K	Warm white	60°	LE1500 9P130-2 WW – 60°	89601011
3,000 K	Warm white	90°	LE1500 9P130-2 WW – 90°	89601024

Packaging: 25 pieces

Specific technical data

Type	Number of LED modules P130-2	Typical luminous flux			Power ^③	Colour rendering index Ra			Weight
		DL 6,500 K ^②	NW 4,200 K ^②	WW 3,000 K ^②		DL 6,500 K	NW 4,200 K	WW 3,000 K	
Length 600 mm									
LE600 4P130-2 DL – 30°	4	424 lm	352 lm	324 lm	12 W	75	80	80	0.128 kg
LE600 4P130-2 DL – 60°	4	424 lm	352 lm	324 lm	12 W	75	80	80	0.128 kg
LE600 4P130-2 DL – 90°	4	424 lm	352 lm	324 lm	12 W	75	80	80	0.128 kg
LE600 4P130-2 NW – 30°	4	424 lm	352 lm	324 lm	12 W	75	80	80	0.128 kg
LE600 4P130-2 NW – 60°	4	424 lm	352 lm	324 lm	12 W	75	80	80	0.128 kg
LE600 4P130-2 NW – 90°	4	424 lm	352 lm	324 lm	12 W	75	80	80	0.128 kg
LE600 4P130-2 WW – 30°	4	424 lm	352 lm	324 lm	12 W	75	80	80	0.128 kg
LE600 4P130-2 WW – 60°	4	424 lm	352 lm	324 lm	12 W	75	80	80	0.128 kg
LE600 4P130-2 WW – 90°	4	424 lm	352 lm	324 lm	12 W	75	80	80	0.128 kg
Length 1000 mm									
LE1000 6P130-2 DL – 30°	6	636 lm	528 lm	486 lm	18 W	75	80	80	0.500 kg
LE1000 6P130-2 DL – 60°	6	636 lm	528 lm	486 lm	18 W	75	80	80	0.128 kg
LE1000 6P130-2 DL – 90°	6	636 lm	528 lm	486 lm	18 W	75	80	80	0.128 kg
LE1000 6P130-2 NW – 30°	6	636 lm	528 lm	486 lm	18 W	75	80	80	0.128 kg
LE1000 6P130-2 NW – 60°	6	636 lm	528 lm	486 lm	18 W	75	80	80	0.128 kg
LE1000 6P130-2 NW – 90°	6	636 lm	528 lm	486 lm	18 W	75	80	80	0.128 kg
LE1000 6P130-2 WW – 30°	6	636 lm	528 lm	486 lm	18 W	75	80	80	0.128 kg
LE1000 6P130-2 WW – 60°	6	636 lm	528 lm	486 lm	18 W	75	80	80	0.128 kg
LE1000 6P130-2 WW – 90°	6	636 lm	528 lm	486 lm	18 W	75	80	80	0.128 kg
Length 1200 mm									
LE1200 7P130-2 DL – 30°	7	742 lm	616 lm	567 lm	21 W	75	80	80	0.128 kg
LE1200 7P130-2 DL – 60°	7	742 lm	616 lm	567 lm	21 W	75	80	80	0.128 kg
LE1200 7P130-2 DL – 90°	7	742 lm	616 lm	567 lm	21 W	75	80	80	0.128 kg
LE1200 7P130-2 NW – 30°	7	742 lm	616 lm	567 lm	21 W	75	80	80	0.128 kg
LE1200 7P130-2 NW – 60°	7	742 lm	616 lm	567 lm	21 W	75	80	80	0.865 kg
LE1200 7P130-2 NW – 90°	7	742 lm	616 lm	567 lm	21 W	75	80	80	0.128 kg
LE1200 7P130-2 WW – 30°	7	742 lm	616 lm	567 lm	21 W	75	80	80	0.128 kg
LE1200 7P130-2 WW – 60°	7	742 lm	616 lm	567 lm	21 W	75	80	80	0.128 kg
LE1200 7P130-2 WW – 90°	7	742 lm	616 lm	567 lm	21 W	75	80	80	0.128 kg
Length 1500 mm									
LE1500 9P130-2 DL – 30°	9	654 lm	792 lm	729 lm	27 W	75	80	80	0.128 kg
LE1500 9P130-2 DL – 60°	9	954 lm	792 lm	729 lm	27 W	75	80	80	0.128 kg
LE1500 9P130-2 DL – 90°	9	954 lm	792 lm	729 lm	27 W	75	80	80	0.128 kg
LE1500 9P130-2 NW – 30°	9	954 lm	792 lm	729 lm	27 W	75	80	80	0.128 kg
LE1500 9P130-2 NW – 60°	9	954 lm	792 lm	729 lm	27 W	75	80	80	0.128 kg
LE1500 9P130-2 NW – 90°	9	954 lm	792 lm	729 lm	27 W	75	80	80	0.128 kg
LE1500 9P130-2 WW – 30°	9	954 lm	792 lm	729 lm	27 W	75	80	80	0.128 kg
LE1500 9P130-2 WW – 60°	9	954 lm	792 lm	729 lm	27 W	75	80	80	0.128 kg
LE1500 9P130-2 WW – 90°	9	954 lm	792 lm	729 lm	27 W	75	80	80	0.128 kg

① Exceeding the max. operating voltage leads to an overload on the TALEX module. This may in turn result in a significant reduction in lifetime or even in destruction. Tolerance range for the supply voltage: +2 V / -0 V.

② Tolerance range for optical data: ±15 % (values without lens).

③ Tolerance range for electrical data: ±15 %.

All values at ta = 25 °C.

RoHS

ACCES-
SORIES

TALEXplate Z161 RZ for TALEXprofile Z201-2/Z22W-2

Product description

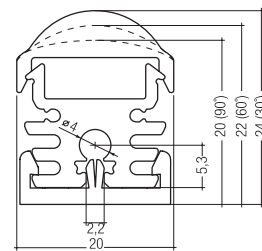
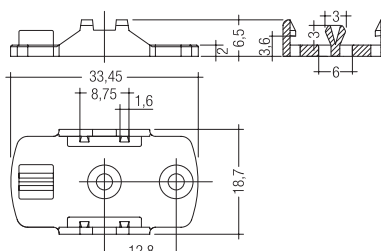
- Mounting plate
- For TALEXengine Line and TALEXprofile Z201 / Z22W
- With studs to prevent sliding in the longitudinal direction
- Material: PBT
- Colour: white

Technical data

Dimensions LxWxH	33.45 x 18.7 x 6.5 mm
Weight	0.1 kg



Product matrix, page 448



Ordering data

Type	Article number
Z161 RZ mounting plate	88166859
Packaging: 100 pieces/carton	

RoHS

ACCES-
SORIES

TALEX Mounting bracket – adjustable

Product description

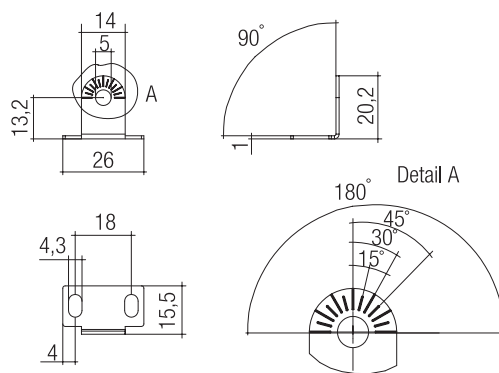
- Mounting bracket with locking screw (hexagon screw ST 4.8 x 16 incl. locking washer) for optimum alignment of TALEXengine Line
- Angle marking for precise alignment of TALEXengine Line
- Minimum space needed for mounting
- Metric M4 screws or ST 4.2 self-tapping screws are needed for fixing the mounting bracket (not included)
- Made from steel 1.4301
- Matt grey

Technical data

Dimensions LxWxH	26 x 15.5 x 20.2 mm
Weight	0.07 kg



Product matrix, page 448



Ordering data

Type	Article number
Mounting bracket – adjustable	24166024
Packaging: 10 pieces/carton	



TALEXengine FULMEN

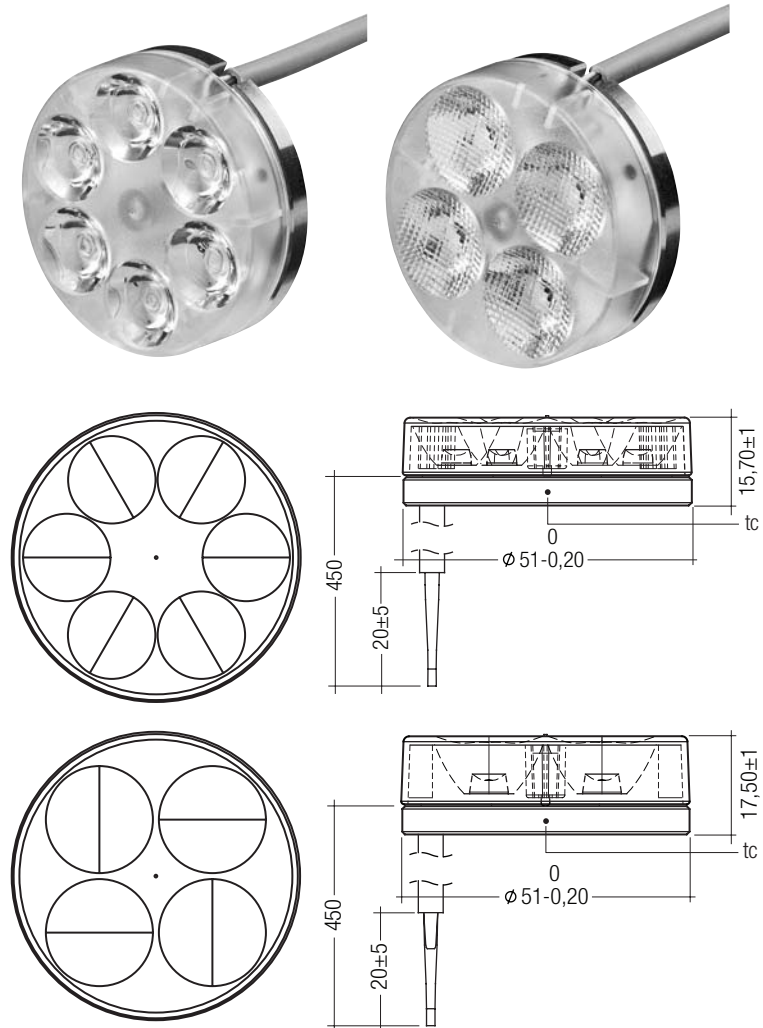
TALEXengine FULMEN

Product description

- Compact dimensions
 - Available in different light colours
 - Safety extra low voltage (SELV)
 - Connection: Cable 450 mm
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Ambient temperature t_a	-20 ... +55 °C
Max. surface temperature on profile	70 °C
Protection class	III



Product matrix, page 448

Standards, page 448

Colour temperatures and tolerances, page 458

Ordering data

Colour temperature	Colour	Beam angle	Type	Article number
Current per channel = 500 mA				
3,000 K	Warm white	25°	FULMEN D51 NW 500mA 30W 25°	89600963
4,200 K	Neutral white	25°	FULMEN D51 WW 500mA 30W 25°	89601036
3,000 K	Warm white	15°	FULMEN D51 NW 700mA 17W 15°	89601040
4,200 K	Neutral white	15°	FULMEN D51 WW 700mA 17W 15°	89601039

Packaging: 12 pieces

Specific technical data

Type	Typ. luminous flux ^①	Luminous intensity ^②	Colour rendering index Ra	Current per channel ^{① ③}	Current per engine (2 channels) ^{① ③}	Max. forward voltage	Power consumption, typ. ^①	Power consumption max. ^①
Current per channel = 500 mA								
FULMEN D51 NW 500mA 30W 25°	1,030 lm	2,000 cd	90	500 mA	1,000 mA	30 V	27 W	30 W
FULMEN D51 WW 500mA 30W 25°	1,210 lm	2,600 cd	80	500 mA	1,000 mA	30 V	27 W	30 W
FULMEN D51 NW 700mA 17W 15°	370 lm	2,100 cd	90	500 mA	1,000 mA	12 V	10 W	12 W
FULMEN D51 WW 700mA 17W 15°	440 lm	2,700 cd	80	500 mA	1,000 mA	12 V	10 W	12 W

^① Tolerance range for optical and electrical data: ±15 %.

^② Typical luminous intensity for 0° central view.

^③ Exceeding the max. operating current leads to an overload on the TALEXengine. This may in turn result in a significant reduction in lifetime or even destruction of the TALEXengine.

All values at $t_a = 25 °C$.

RoHS

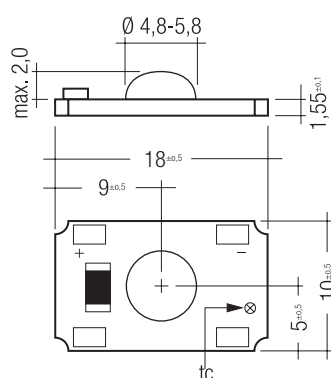
TALEXeos P211-2

TALEXeos

Product description

- General lighting
- Design and effect lighting
- Emergency lighting
- Spotlights
- High-flux LED module
- Narrow colour temperature tolerance band
- Compact design
- Excellent thermal management
- Optional spot lens accessory TALEX lens 0211
- Integrated polarity reversal protection
- High-power LED in chip-on-board technology (COB)
- Low thermal resistance $R_{th, j-hs} < 10 \text{ K/W}$
- Attached with premounted thermally conductive adhesive tape
- Connection: Cable 200 mm
- Cooling required

→ For product data sheet go to www.tridonic.com,
or available on request

**Ordering data**

Colour	Wavelength	Type	Article number
1 light point per module			
Red	620 – 627 nm	P211-2 R	89600351
Amber	585 – 592 nm	P211-2 A	89600352
Green	520 – 530 nm	P211-2 G	89600353
Blue	455 – 465 nm	P211-2 B	89600354

Packaging: 20 pieces/carton

Technical data

Beam characteristic	140°
Ambient temperature t_a ①	-25 ... +55 °C
tc point	75 °C



Product matrix, page 448

Standards, page 448

Colour temperatures and tolerances, page 458

Specific technical data

Type	Typ. luminous flux②	Luminous intensity③	Current DC④	Power⑤
1 light point per module				
P211-2 R	27 lm	9.0 cd	350 mA	0.9 W
P211-2 A	22 lm	8.0 cd	350 mA	0.9 W
P211-2 G	59 lm	13.0 cd	350 mA	1.2 W
P211-2 B	13 lm	2.7 cd	350 mA	1.2 W

① $R_{th, j-hs}$ = Thermal Resistance (Junction – Heat Sink). Exceeding the max. temperature limits leads to a reduced life or the module can be damaged.
Measuring of the temperature at the tc-point in the thermally stable state.

② Tolerance range for optical and electrical data: ±15 %.

③ Typical luminous intensity for 0° central view.

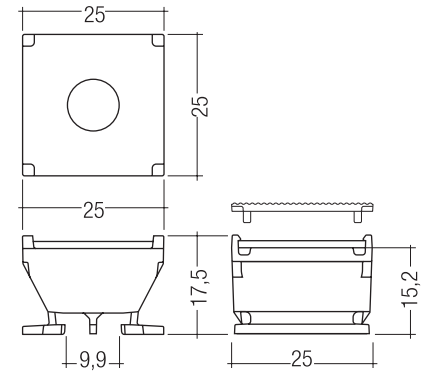
④ Exceeding the max. operating current leads to an overload on the TALEXeos module. This may in turn result in a significant reduction in lifetime or even destruction of the TALEXeos module.

ACCES-
SORIES

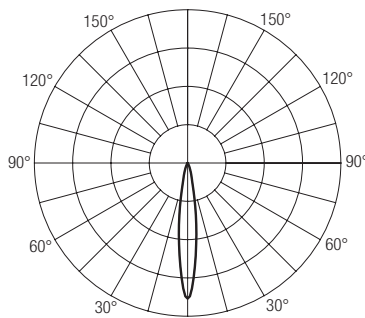
TALEX lens 0211-2 spot lens 10°

Product description

- Narrow-beam lens for TALEXeos P211-2 / P211-3
- For general, design and effect lighting
- As a spotlight
- High efficiency and quality of light
- Simple installation
- 10° beam angle for colours
- 20° beam angle for white
- Attached with ready-made adhesive tape
- Material: PC/PMMA
- Colour: white / transparent



Diagram



Ordering data

Dimensions LxWxH	Weight	Type	Article number
25 x 25 x 17.7 mm	0.007 kg	0211-2 spot lens 10°	24139148

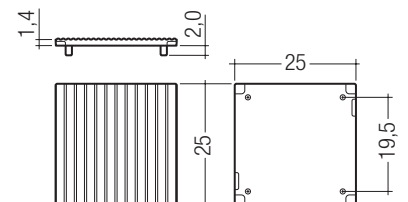
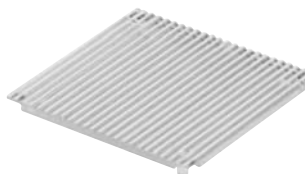
Packaging: 10 pieces/carton

ACCES-
SORIES

TALEX lens 0211-2 diffusion lens

Product description

- Diffusion lens for TALEXeos P211-2 / P211-3
- In combination with TALEX lens 0211-2 spot lens
- No tools required for installing
- Material: PMMA
- Colour: transparent
- Asymmetrical beam angle 10° / 40°
- For wallwash applications
- As an asymmetrical spotlight
- Symmetrical beam angle 40°
- As a symmetrical spotlight



Ordering data

Dimensions LxWxH	Weight	Type	Article number
25 x 25 x 1.4 mm	0.001 kg	0211-2 diffusion lens 10 / 40°	24139011
25 x 25 x 1.4 mm	0.001 kg	0211-2 diffusion lens 40°	24166036

Packaging: 5 pieces/carton

RoHS

NEW

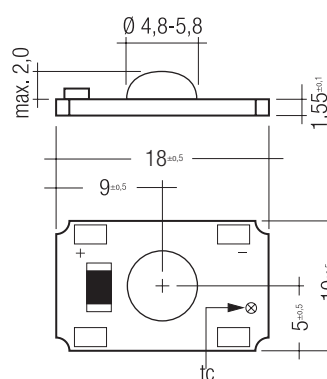
TALEXeos P211-3

TALEXeos

Product description

- General lighting
- Design and effect lighting
- Emergency lighting
- Spotlights
- High-flux LED module
- Narrow colour temperature tolerance band
- Compact design
- Excellent thermal management
- Integrated polarity reversal protection
- Optional spot lens accessory TALEX lens O211
- High-power LED in chip-on-board technology (COB)
- Low thermal resistance $R_{th, j-hs} < 10 \text{ K/W}$
- Attached with premounted thermally conductive adhesive tape
- Connection: Cable 200 mm
- Cooling required

→ For product data sheet go to www.tridonic.com,
or available on request



Technical data

Beam characteristic	140°
Ambient temperature t_a ®	-25 ... +55 °C
tc point	75 °C



Accessories, lens, page 479

Product matrix, page 448

Standards, page 448

Colour temperatures and tolerances, page 458

Ordering data

Colour	Colour temperature	Type	Article number
1 light point per module			
Warm white	3,000 K	P211-3 WW	89600667
Neutral white	4,200 K	P211-3 NW	89600666
Daylight white	6,500 K	P211-3 DL	89600684
Gold	2,700 K	P211-3 GOLD	89600940
Cool meat	–	P211-3 CM2	89600939

Packaging: 100 pieces/carton

Specific technical data

Type	Typ. luminous flux®	Luminous intensity®	Colour rendering index Ra/Rf	Current DC®	Power®
1 light point per module					
P211-3 WW	51 lm	13.9 cd	80	350 mA	1.2 W
P211-3 NW	59 lm	16.0 cd	80	350 mA	1.2 W
P211-3 DL	73 lm	19.8 cd	> 70	350 mA	1.2 W
P211-3 GOLD	90 lm	24.5 cd	> 90	700 mA	2.4 W
P211-3 CM2	100 lm	27.5 cd	> 75	700 mA	2.4 W

® Tolerance range for optical and electrical data: $\pm 15\%$.

® Typical luminous intensity for 0° central view.

® Exceeding the max. operating current leads to an overload on the TALEXeos module. This may in turn result in a significant reduction in lifetime or even destruction of the TALEXeos module.

® $R_{th, j-hs}$ = Thermal Resistance (Junction – Heat Sink). Exceeding the max. temperature limits leads to a reduced life or the module can be damaged. Measuring of the temperature at the tc-point in the thermally stable state.

RoHS

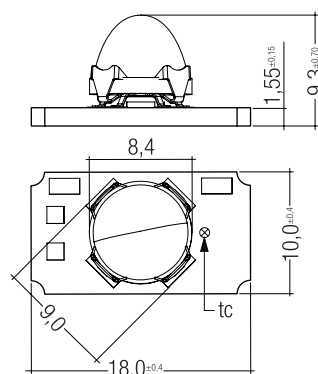
TALEXeos P211-3 30°

TALEXeos

Product description

- General lighting
- Design and effect lighting
- Emergency lighting
- Spotlights
- High-flux LED module
- Narrow colour temperature tolerance band
- Compact design
- Excellent thermal management
- Integrated polarity reversal protection
- High-power LED in chip-on-board technology (COB)
- Low thermal resistance $R_{th, j-hs} < 10 \text{ K/W}$
- 30° beam characteristic, uniform light distribution
- Attached with premounted thermally conductive adhesive tape
- Connection: Cable 200 mm
- Cooling required

→ For product data sheet go to www.tridonic.com,
or available on request



Technical data

Beam characteristic	30°
Ambient temperature t_a ^①	-25 ... +55 °C
tc point	75 °C

Ordering data

Colour	Colour temperature	Type	Article number
1 light point per module			
Warm white	3,000 K	P211-3 WW 30°	89600560
Neutral white	4,200 K	P211-3 NW 30°	89600561

Packaging: 40 pieces/carton



Product matrix, page 448

Standards, page 448

Colour temperatures and tolerances, page 458

Specific technical data

Type	Typ. luminous flux ^②	Luminous intensity ^③	Current DC ^④	Power ^②
1 light point per module				
P211-3 WW 30°	37 lm	74 cd	350 mA	1.2 W
P211-3 NW 30°	50 lm	100 cd	350 mA	1.2 W

^① $R_{th, j-hs}$ = Thermal Resistance (Junction – Heat Sink). Exceeding the max. temperature limits leads to a reduced life or the module can be damaged.
Measuring of the temperature at the tc-point in the thermally stable state.

^② Tolerance range for optical and electrical data: $\pm 15 \%$.

^③ Typical luminous intensity for 0° central view.

^④ Exceeding the max. operating current leads to an overload on the TALEXeos module. This may in turn result in a significant reduction in lifetime or even destruction of the TALEXeos module.

RoHS

NEW

TALEXeos P214-3

TALEXeos

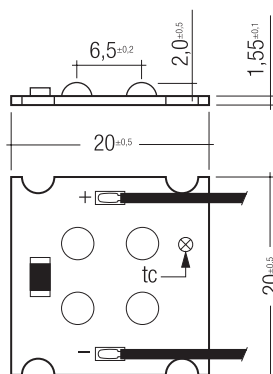
Product description

- General lighting
- Design and effect lighting
- Emergency lighting
- Spotlights
- High-flux LED module with 4 high-output LEDs
- Narrow colour temperature tolerance band
- Compact design
- Excellent thermal management
- Integrated polarity reversal protection
- Optional spot lens accessory TALEX lens O214
- High-power LED in chip-on-board technology (COB)
- Low thermal resistance $R_{th, J-hs} < 2.5 \text{ K/W}$
- Attached with premounted thermally conductive adhesive tape
- Connection: Cable 200 mm
- Cooling required

→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

Beam characteristic	140°
Ambient temperature t_a ®	-25 ... +55 °C
tc point	75 °C



Ordering data

Colour	Colour temperature	Type	Article number
4 light points per module			
Warm white	—	P214-3 WW	89600669
Neutral white	4,200 K	P214-3 NW	89600668
Daylight white	6,500 K	P214-3 DL	89600685

Packaging: 25 pieces/carton



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Colour temperatures and tolerances, page 458

Specific technical data

Type	Typ. luminous flux®	Luminous intensity®	Current DC®	Power®
4 light points per module				
P214-3 WW	205 lm	55.5 cd	350 mA	4.8 W
P214-3 NW	235 lm	63.6 cd	350 mA	4.8 W
P214-3 DL	294 lm	79.6 cd	350 mA	4.8 W

® $R_{th, J-hs}$ = Thermal Resistance (Junction – Heat Sink). Exceeding the max. temperature limits leads to a reduced life or the module can be damaged.
Measuring of the temperature at the tc-point in the thermally stable state.

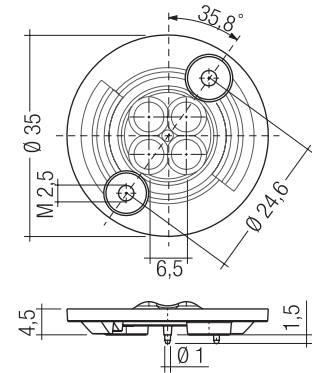
® Tolerance range for optical and electrical data: ±15 %

® Typical luminous intensity for 0° central view

® Exceeding the max. operating current leads to an overload on the TALEXeos module. This may in turn result in a significant reduction in lifetime or even destruction of the TALEXeos module.

Product description

- 60° lens for TALEXeos P214
- For general, design and effect lighting
- As a spotlight
- LV halogen replacement
- Simple installation
- Beam characteristic: 60°
- Attached with 2 x M 2.5 screws
- Material: PC



Ordering data

Colour	Dimensions ØxH	Weight	Type	Article number
transparent	35 x 7.3 mm	0.003 kg	0214 lens 60°	24139082

Packaging: 10 pieces/carton

TALEXstrip P105-3, P108-3

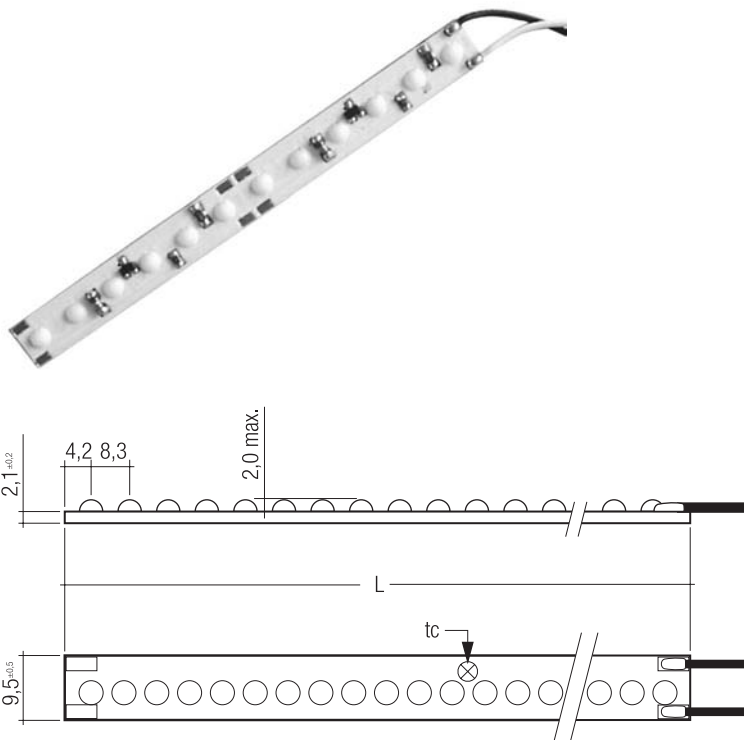
TALEXstrip, white

Product description

- LED strip module for highlighting lines and edges and for side injection
 - For safety lighting, general lighting, effect lighting and shelf lighting
 - Suitable for LED profile Z200-2 / 201-2 / Z204, Z22W-2
 - Edge injection of transparent or diffuse materials
 - With maximum possible beam angle for uniform illumination
 - Low-profile
 - Simple installation thanks to pre-fitted adhesive tape
 - Dimmable by pulse width modulation (PWM)
 - Integrated current source to stabilise luminous flux
 - Beam characteristic: 140°
 - Attached with premounted thermally conductive double-sided adhesive tape
 - Connection: Cable 200 mm
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Ambient temperature t_a	-25 ... +50 °C
tc point ^①	80 °C

**Ordering data**

Colour	Colour temperature	Type	Article number
24 light points per module			
Daylight white	6,500 K	P108-2 DL	89601052
Neutral white	4,200 K	P108-2 NW	89601051
Warm white	3,000 K	P108-2 WW	89601050
6 light points per module			
Daylight white	6,500 K	P105-2 DL	89601049
Neutral white	4,200 K	P105-2 NW	89601048
Warm white	3,000 K	P105-2 WW	89601047

Packaging TALEXstrip P105: 20 pieces/carton

Packaging TALEXstrip P108: 10 pieces/carton

Specific technical data

Type	Typ. luminous flux ^②	Colour rendering index Ra/Rf	Supply voltage DC ^③	Power ^②	Total length
24 light points per module					
P108-2 DL	204 lm	75	24 V	3.84 W	200 +/- 1 mm
P108-2 NW	167 lm	80	24 V	3.84 W	200 +/- 1 mm
P108-2 WW	146 lm	80	24 V	3.84 W	200 +/- 1 mm
6 light points per module					
P105-2 DL	51 lm	75	24 V	0.96 W	50 +/- 1 mm
P105-2 NW	42 lm	80	24 V	0.96 W	50 +/- 1 mm
P105-2 WW	37 lm	80	24 V	0.96 W	50 +/- 1 mm

^① If the max. temperature limits are exceeded, the life of the module will be reduced or the module may be damaged. The temperature of the TALEXstrip at the tc-point is to be measured in the thermally stable state. For tc-point see the above diagram.

^② Tolerance range for optical and electrical data: ±15 %.

^③ Exceeding the max. operating voltage leads to an overload on the TALEXstrip. This may in turn result in a significant reduction in lifetime or even in destruction. Tolerance range for the supply voltage: 24 V: +2 V / -0 V

All values at $t_a = 25$ °C.

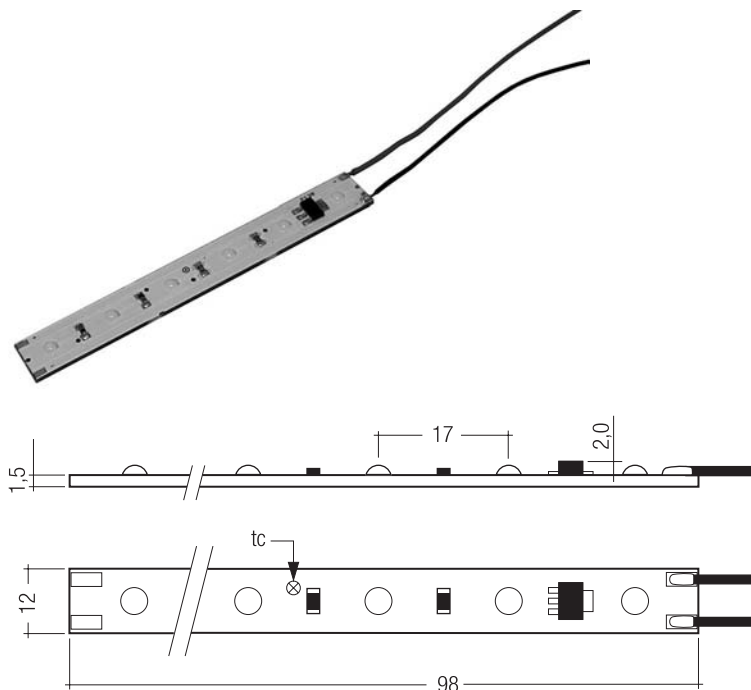
RoHS

TALEXstrip P130-2

TALEXstrip, white

Product description

- LED strip module for linear illumination, highlighting of lines and edges and for side injection
 - For safety lighting, general lighting, effect lighting and shelf lighting
 - Suitable for LED profile Z200-2 / 201-2 / Z204, Z22W-2
 - Edge injection of transparent or diffuse materials
 - With maximum possible beam angle for uniform illumination
 - Low-profile
 - Simple installation thanks to pre-fitted adhesive tape
 - High-power LED in chip-on-board technology (COB)
 - Dimmable by pulse width modulation (PWM)
 - Integrated current source to stabilise luminous flux
 - Wide 140° distribution of light for uniform illumination
 - Attached with premounted thermally conductive double-sided adhesive tape
 - Connection: Cable 200 mm
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Ambient temperature t_a	-30 ... +40 °C
tc point ^②	75 °C

Ordering data

Colour	Colour temperature	Type	Article number
6 light points per module			
Daylight white	6,500 K	P130-2 DL	89600745
Neutral white	4,200 K	P130-2 NW	89600746
Warm white	3,000 K	P130-2 WW	89600747
Gold	2,700 K	P130-2 GOLD	89600744
Cool meat	–	P130-2 CM2	89600786

Packaging: 20 pieces/carton



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Colour temperatures and tolerances, page 458

Specific technical data

Type	Typ. luminous flux ^①	Colour rendering index Ra/R _{ff}	Supply voltage DC ^③	Power ^②
6 light points per module				
P130-2 DL	106 lm	> 75	24 V	3 W
P130-2 NW		> 80	24 V	3 W
P130-2 WW	81 lm	> 80	24 V	3 W
P130-2 GOLD ^④	55 lm	> 90	24 V	3 W
P130-2 CM2 ^⑤	74 lm	> 80 ^⑥	24 V	3 W

^① $R_{th, j-hs}$ = Thermal Resistance (Junction – Heat Sink). Exceeding the max. temperature limits leads to a reduced life or the module can be damaged. Measuring of the temperature at the tc-point in the thermally stable state with a temperature sensor.

^② Tolerance range for optical and electrical data: ±15 %.

^③ R_{ff} (Cool meat): special colour rendering index for illuminating meat and meat products to DIN 10504.

^④ Exceeding the max. operating voltage leads to an overload on the TALEXstrip. This may in turn result in a reduction in lifetime or even in destruction. Tolerance range for the supply voltage: 12 V: +2 V / -0 V; 24 V: +2 V / -0 V.

^⑤ Gold: light colour for cheese and pastries, Cool meat: light colour for fresh meat and sausages.

All values at $t_a = 25$ °C.

RoHS

TALEXstrip P110-3/111-3

TALEXstrip, white/ RGBA

Product description

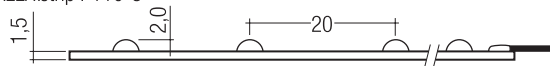
- LED strip module for highlighting lines and edges and for side injection
 - For safety lighting, general lighting, effect lighting and shelf lighting
 - Suitable for LED profile Z200-2 / 201-2 / Z204, Z22W-2
 - Edge injection of transparent or diffuse materials
 - With maximum possible beam angle for uniform illumination
 - Low profile
 - Simple installation thanks to pre-fitted adhesive tape
 - Dimmable by pulse width modulation (PWM)
 - Integrated current source to stabilise luminous flux
 - Beam characteristic: 140°
 - Attached with premounted thermally conductive double-sided adhesive tape
 - Connection: Cable 200 mm
- For product data sheet go to www.tridonic.com, or available on request

Technical data

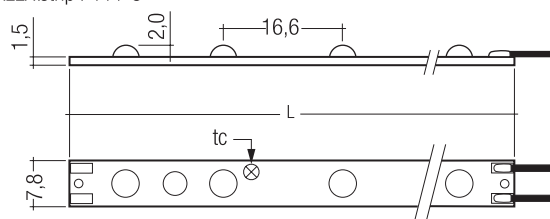
Ambient temperature t_a	-25 ... +50 °C
tc point ^①	75 °C



TALEXstrip P110-3



TALEXstrip P111-3

**Ordering data**

Colour	Wavelength	Colour temperature	Type	Article number
10 light points per module				
Red	619 – 629 nm	–	P110-3 R	89601054
Amber	584 – 594 nm	–	P110-3 A	89601053
12 light points per module				
Daylight white	–	6,500 K	P111-3 DL	89601044
Neutral white	–	4,200 K	P111-3 NW	89601043
Warm white	–	3,000 K	P111-3 WW	89601042
Green	520 – 535 nm	–	P111-3 G	89601046
Blue	450 – 460 nm	–	P111-3 B	89601045

Packaging: 10 pieces/carton

Specific technical data

Type	Typ. luminous flux ^②	Supply voltage DC ^③	Power ^②	Total length	Colour rendering index Ra/Rf
10 light points per module					
P110-3 R	70 lm	24 V	1.56 W	200 +/- 1 mm	–
P110-3 A	48 lm	24 V	1.56 W	200 +/- 1 mm	–
12 light points per module					
P111-3 DL	102 lm	24 V	1.92 W	200 +/- 1 mm	75
P111-3 NW	83 lm	24 V	1.92 W	200 +/- 1 mm	80
P111-3 WW	73 lm	24 V	1.92 W	200 +/- 1 mm	80
P111-3 G	30 lm	24 V	1.92 W	200 +/- 1 mm	–
P111-3 B	25 lm	24 V	1.92 W	200 +/- 1 mm	–

^① If the max. temperature limits are exceeded, the life of the module will be reduced or the module may be damaged. The temperature of the TALEXstrip at the tc-point is to be measured in the thermally stable state. For tc-point see the above diagram.

^② Tolerance range for optical and electrical data: ±15 %

^③ Exceeding the max. operating voltage leads to an overload on the TALEXstrip. This may in turn result in a significant reduction in lifetime or even in destruction. Tolerance range for the supply voltage: 24 V: +2 V / -0 V

All values at $t_a = 25\text{ °C}$.

TALEXtape FD101

TALEXtape, RGB

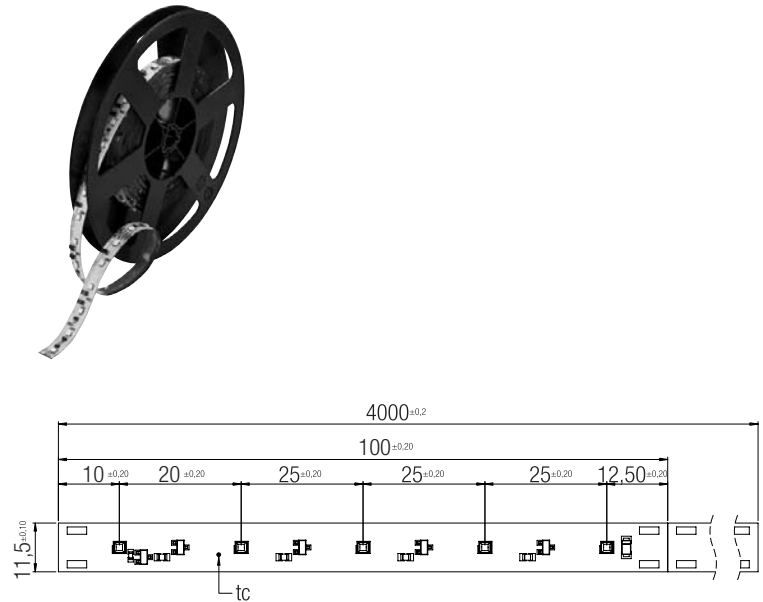
Product description

- Accenting lines and edges and for side injection
- Edge lighting of transparent or diffuse materials
- LED on flexible board with adhesive tape
- Low profile
- LED in SMD technology
- Dimmable by pulse width modulation (PWM)
- Constant current source for stabilising the luminous flux
- Attached with premounted adhesive tape
- Smallest unit (5 LEDs) can be trimmed at 100 mm
- No cooling required

→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

tc point in preparation



Ordering data

Colour	Type	Article number
200 light points per module		
Red, green, blue	FD101 RGB	89601028

Specific technical data

Type	Supply voltage DC	Power	Length L	Colour red				Colour green				Colour blue				
				Wavelength	typ. luminous flux	Current	Power	Wavelength	typ. luminous flux	Current	Power	Wavelength	typ. luminous flux	Current	Power	
200 light points per module																
FD101 RGB																in preparation

RoHS

TALEXstrip P521-3

TALEXstrip, white, chained

Product description

- LED strip module for highlighting lines and edges and for side injection
- Ready made chain comprising 5 P110 or P111-2 strips
- For safety lighting, general lighting, effect lighting and shelf lighting
- Suitable for LED profile Z200 / 201 / 202 / 203
- With maximum possible beam angle for uniform illumination
- Edge injection of transparent or diffuse materials
- Low-profile
- Dimmable by pulse width modulation (PWM)
- Protective coating
- Integrated current source to stabilise luminous flux
- Attached with M4 plastic screw or double-sided adhesive tape
- Connection: Cable 200 mm

→ For product data sheet go to www.tridonic.com, or available on request

Technical data

Ambient temperature t_a	-25 ... +50 °C
tc point ^①	75 °C



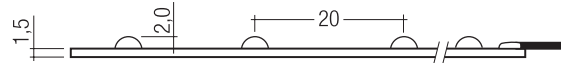
Product matrix, page 448

Standards, page 448

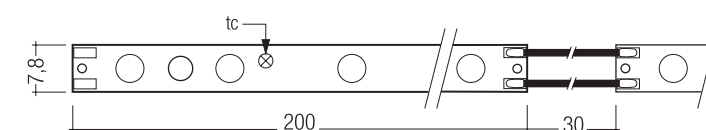
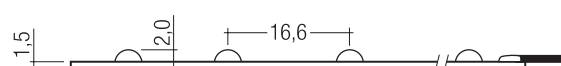
Colour temperatures and tolerances, page 458



TALEXchain P520



TALEXchain P521-2

**Ordering data**

Colour	Wavelength	Colour temperature	Type	Article number
12 light points per module				
Daylight white	–	6,500 K	P521-3 DL	89601057
Neutral white	–	4,200 K	P521-3 NW	89601056
Warm white	–	3,000 K	P521-3 WW	89601055

Packaging: 2 pieces/carton

Specific technical data

Type	Typ. luminous flux ^②	Supply voltage DC ^③	Power ^②	Total length
12 light points per module				
P521-3 DL	245 lm	24 V	9.6 W	1,150 mm
P521-3 NW	205 lm	24 V	9.6 W	1,150 mm
P521-3 WW	180 lm	24 V	9.6 W	1,150 mm

^① If the max. temperature limits are exceeded, the life of the module will be greatly reduced or the module may be damaged. For the precise position of the tc point see the above diagram.

^② Tolerance range for optical and electrical data: ±15 %.

^③ Exceeding the max. operating voltage leads to an overload on the TALEXchain. This may in turn result in a significant reduction in lifetime or even in destruction. Tolerance range for the supply voltage: 24 V: +2 V / -0 V

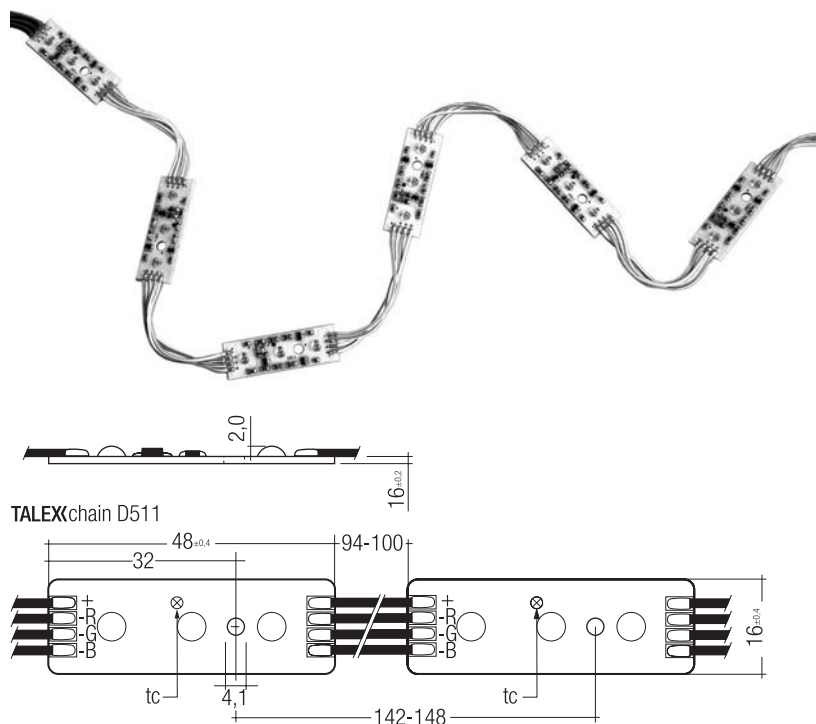
All values at $t_a = 25$ °C.

TALEXstrip D511-3 RGB

TALEXstrip, RGB chained

Product description

- RGB chain for colour mixing in backlighting applications for architecture and illuminated advertising
 - Backlighting of complex contours
 - Simple installation thanks to pre-fitted adhesive tape
 - With maximum possible beam angle for uniform illumination
 - Low-profile
 - Individually adjustable luminance
 - Energy-saving thanks to minimal heat output
 - Precise colour control for creating different white temperatures
 - Flexible chain, can be split between any module
 - Dimmable by pulse width modulation (PWM)
 - Protective coating
 - Integrated current source to stabilise luminous flux
 - Beam characteristic: 140°
 - Connection: Cable 200 mm, both sides
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Ambient temperature t_a	-25 ... +50 °C
tc point ^①	75 °C

Ordering data

Colour [®]	Type	Article number
Red, green, blue	D511-3 RGB	89601058
Packaging: 5 pieces/carton		

Product matrix, page 448

Standards, page 448

Colour temperatures and tolerances, page 458

Specific technical data

Type	Supply voltage DC ^②	Power [®]	Length L	Colour red				Colour green				Colour blue			
				Wavelength	typ. luminous flux [®]	Current	Power	Wavelength	typ. luminous flux [®]	Current	Power	Wavelength	typ. luminous flux [®]	Current	Power
D511-3 RGB	12 V	15.3 W	~2,000 mm	623 – 628 nm	132 lm	525 mA	6.3 W	521 – 526 nm	187.5 lm	375 mA	4.5 W	461 – 466 nm	46.5 lm	375 mA	4.5 W

^① If the max. temperature limits are exceeded, the life of the module will be greatly reduced or the module may be damaged.
For the precise position of the tc point see the above diagram.

^② Exceeding the max. operating voltage leads to an overload on the TALEXchain. This may in turn result in a significant reduction in lifetime or even in destruction. Tolerance range for the supply voltage: 12 V: +2 V / -0 V

^③ Tolerance range for optical and electrical data: ±15 %

^④ Mix of all colours at 100 % does not lead to pure white colour

All values at $t_a = 25$ °C.

RoHS

TALEXprofile Z200-2

Mounting / cooling profile

Product description

- Aluminium mounting plate for TALEX module chains and strips up to a width of 12 mm
 - Aluminium, anodised, natural
 - Flexible and easy to install
 - Mounting unit for plastic cover
 - Compact cross-section (9 x 18 mm)
 - Can be expanded with extensive accessories (optional)
- For product data sheet go to www.tridonic.com, or available on request

Technical data

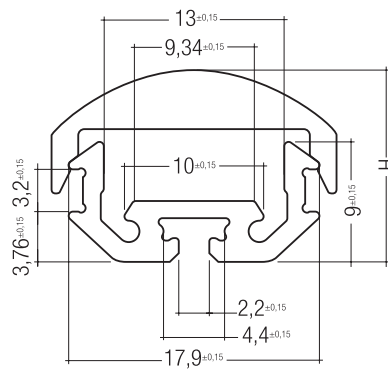
Dimensions LxWxH	2,000 x 18 x 9 mm
Weight	0.322 kg



Accessories, plastic covers, page 497

Accessories, linear lenses, page 499

Product matrix, page 448



Ordering data

Type	Article number
Z200-2 Mounting profile, aluminium	24166148
Packaging: 5 pieces/carton	

RoHS

NEW

TALEXprofile Z201-2

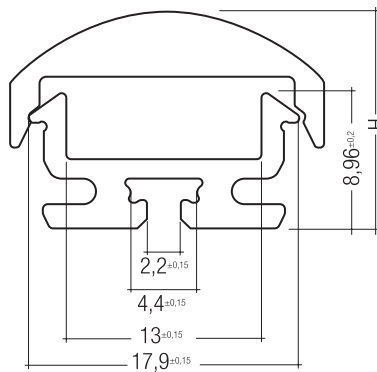
Mounting / cooling profile

Product description

- Aluminium mounting plate for TALEX module chains and strips up to a width of 12 mm
 - Aluminium, anodised, natural
 - Installation with TALEXplate Z161 RZ
 - Mounting unit for plastic cover
 - Compact cross-section (9 x 18 mm)
 - Can be expanded with extensive accessories (optional)
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Dimensions LxWxH	2,000 x 18 x 9 mm
Weight	0.34 kg



Ordering data

Type	Article number
Z201-2 Mounting profile, aluminium	24166149

Packaging: 5 pieces/carton



Accessories, plastic covers, page 497

Accessories, linear lenses, page 499

Accessories, mounting plate, page 500

Product matrix, page 448

ACCES-
SORIES

End cap for Z201-2

Product description

- End cap for TALEXprofile Z201-2
- Material: PMMA
- Colour: metallic-grey

Technical data

Dimensions LxWxH	6 x 23 x 19 mm



Ordering data

Type	Article number
Z201 end cap	24138968

Packaging: 10 pieces/carton

RoHS

NEW

TALEXprofile Z22W-2

Mounting / cooling profile

Product description

- Aluminium mounting plate for TALEX module chains and strips up to a width of 12 mm
 - Aluminium, anodised, natural
 - Installation with TALEXplate Z161 RZ
 - Compact cross-section (15.56 x 17.9 mm)
 - Can be expanded with extensive accessories (optional)
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Dimensions LxWxH	2,000 x 17.9 x 16 mm
Weight	1.6 kg

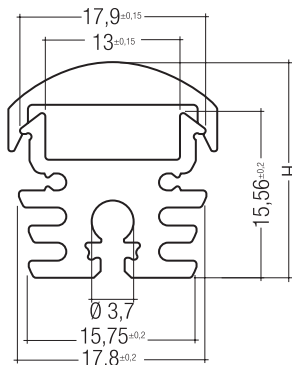


Accessories, plastic covers, page 497

Accessories, linear lenses, page 499

Accessories, mounting plate, page 500

Product matrix, page 448



Ordering data

Type	Article number
Z22W-2 Mounting profile, aluminium	24166150

Packaging: 5 pieces/carton

ACCES-
ORIES

End cap for Z22W-2

Product description

- End cap for TALEXprofile Z22W-2
- Screws included
- Aluminium, anodised

Technical data

Dimensions LxWxH	1.5 x 20 x 20 mm
Weight	0.02 kg



Ordering data

Type	Article number
Z22W end cap	24139174

Packaging: 10 pieces/carton

End cap with cable entry for Z22W-2

Product description

- End cap for TALEX profile Z22W-2
- With cable penetration
- Screws included
- Aluminium, anodised

Ordering data

Type	Article number
Z22W end cap with cable entry	24139173

Packaging: 10 pieces/carton

Technical data

Dimensions LxWxH	1.5 x 20 x 20 mm
Weight	0.02 kg

RoHS

TALEXprofile Z202

Mounting / cooling profile

Product description

- Universal aluminium mounting plate for accenting and edge injection
 - For TALEX strips (in combination with TALEXprofile Z204) and TALEXspaceLED
 - Aluminium, anodised, natural
 - Compact cross-section
 - Slide-in option for acrylic strip
 - Can be expanded with extensive accessories (optional)
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Dimensions LxWxH	2,000 x 21.9 x 37.6 mm
Weight	1.25 kg

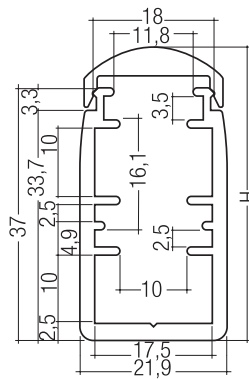
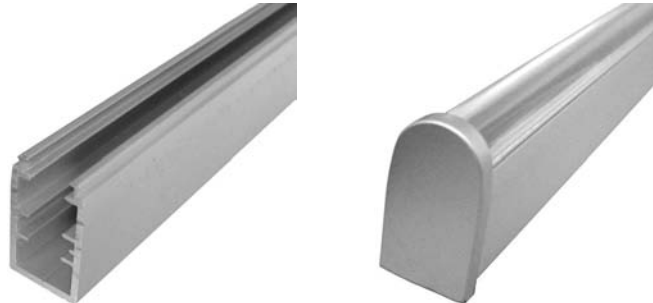


Accessories, slide-in profile, page 496

Accessories, plastic covers, page 497

Accessories, linear lenses, page 499

Product matrix, page 448



Ordering data

Type	Article number
Z202 Mounting profile, aluminium	24138849

Packaging: 5 pieces/carton

ACCES-
SORIES

End cap for Z202

Product description

- End cap for TALEXprofile Z202
- Material: PMMA
- Colour: metallic-grey

Technical data

Dimensions LxWxH	6 x 26 x 46 mm



Ordering data

Type	Article number
Z202 end cap	24138969

Packaging: 10 pieces/carton

RoHS

TALEXprofile Z203

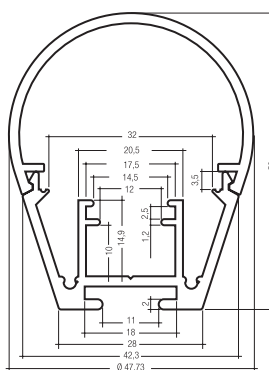
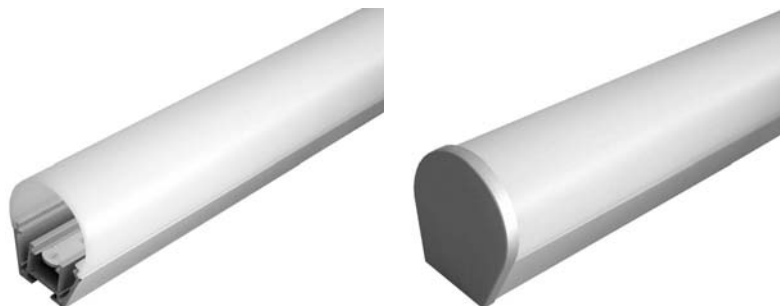
Mounting / cooling profile

Product description

- Universal aluminium mounting plate for large-format contour lighting or luminaire concepts
 - For TALEX strips (in combination with TALEXprofile Z204) and TALEXspaceLED
 - Aluminium, anodised, natural
 - Can be expanded with extensive accessories (optional)
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Dimensions LxWxH	2,000 x 42.3 x 27 mm
Weight	1.54 kg



Ordering data

Type	Article number
Z203 Mounting profile, aluminium	24138967

Packaging: 5 pieces/carton

Accessories, slide-in profile, page 496

Accessories, covers, page 497

Product matrix, page 448

ACCES-
SORIES

End cap for Z203

Product description

- End cap for TALEXprofile Z203
- Material: PMMA

Technical data

Dimensions LxWxH	6 x 52 x 61.5 mm



Ordering data

Type	Article number
Z203 end cap	24138970

Packaging: 10 pieces/carton

RoHS

TALEXprofile Z204

Slide-in / cooling section

Product description

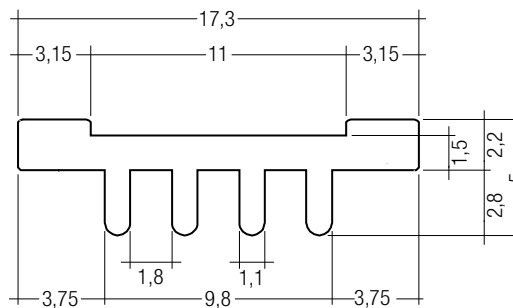
- Slide-in profile for TALEX profiles Z202 / 203
 - Cooling section for LED strips up to 10 mm wide
 - Aluminium, anodised, natural
 - Compact cross-section (2 x 17 mm)
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Dimensions LxWxH 2,000 x 17.3 x 2.2 mm



Product matrix, page 448



Ordering data

Type	Article number
Z204 Slide-in unit/cooling section	24138850
Packaging: 5 pieces/carton	

RoHS

TALEXcover Z220/Z221/Z222

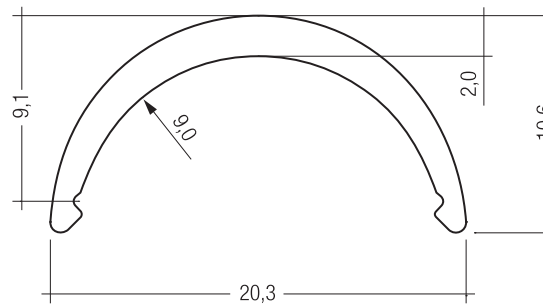
Diffusers

Product description

- Plastic cover for TALEXprofile Z200-2 / Z201-2 / Z202 / Z22W-2
 - Material: PMMA
 - No tools required for installing
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Dimensions LxWxH 2,000 x 20 x 10 mm



Ordering data

Colour	Transmission	Type	Article number
white	62 %	Z220 Plastic cover, white	24138736
diffus	82 %	Z221 Plastic cover, matt	24138737
transparent	92 %	Z222 Plastic cover, transparent	24138738

Packaging: 5 pieces/carton



Product matrix, page 448

RoHS

TALEXcover for TALEXprofile Z203

Diffusers

Product description

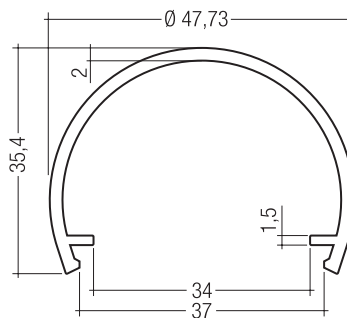
- Plastic cover for TALEXprofile Z203
 - Material: PMMA
 - No tools required for installing
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Dimensions LxWxH 2,000 x 47.7 x 35.4 mm



Product matrix, page 448



Ordering data

Colour	Transmission	Type	Article number
white	62 %	Z203 Plastic cover, white	24138971
diffus	82 %	Z203 Plastic cover, matt	24138972
transparent	92 %	Z203 Plastic cover, transparent	24138973

Packaging: 5 pieces/carton

RoHS

TALEX lens 0200

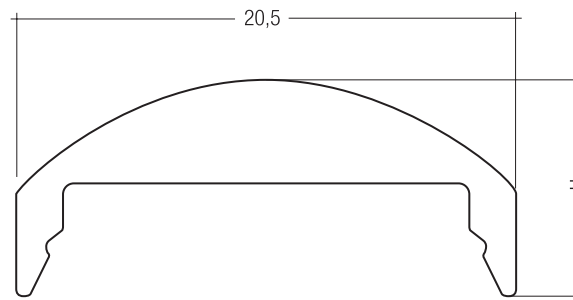
Linear lens

Product description

- Linear lens for TALEX profile Z200-2 / Z201-2 / Z202 / Z22W-2
 - For use exclusively with TALEX modules
 - No tools required for installing
 - Beam angle 30°, 60°, 90°
 - Uniform distribution of light
 - Material: PMMA
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Dimensions LxW	2,000 x 20.5 mm
Weight	0.17 kg



Product matrix, page 448

Diagram Light distribution curve 30°

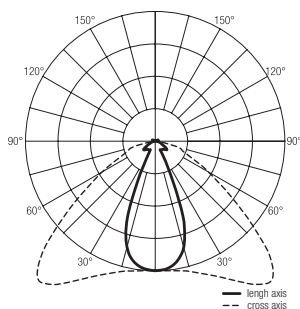


Diagram Light distribution curve 60°

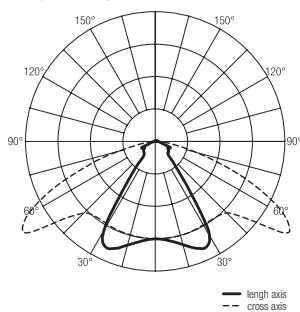
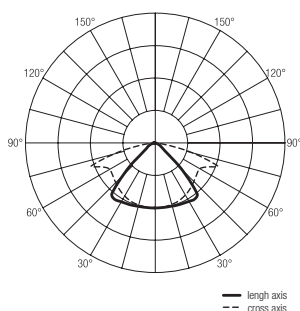


Diagram Light distribution curve 90°



Ordering data

Colour	Height H	Type	Article number
transparent	11 mm	0200 – 30° linear lens	24139172
transparent	10 mm	0200 – 60° linear lens	24139164
transparent	9 mm	0200 – 90° linear lens	24139165
semi-transparent	11 mm	0200 – 30° frosted linear lens	24139175
semi-transparent	10 mm	0200 – 60° frosted linear lens	24139176
semi-transparent	9 mm	0200 – 90° frosted linear lens	24139177

Packaging: 5 pieces/carton

RoHS

ACCES-
SORIES

TALEXplate Z161 RZ for TALEXprofile Z201-2/Z22W-2

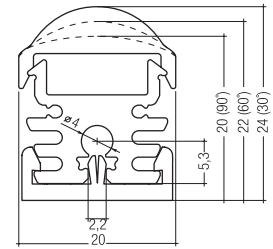
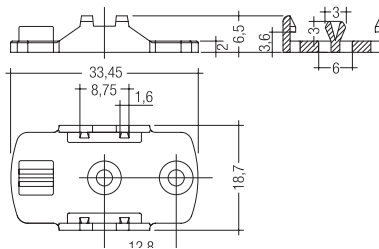
Mounting plates

Product description

- Mounting plate
 - For TALEXengine Line and TALEXprofile Z201 / Z22W
 - With studs to prevent sliding in the longitudinal direction
 - Material: PBT
 - Colour: white
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Dimensions LxWxH	33.45 x 18.7 x 6.5 mm
Weight	0.1 kg



Ordering data

Type	Article number
Z161 RZ mounting plate	88166859
Packaging: 100 pieces/carton	



Product matrix, page 448

RoHS

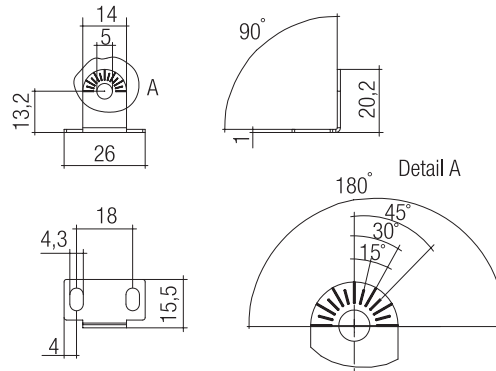
ACCES-
SORIES

TALEX Mounting bracket – adjustable

Mounting plates

Product description

- Mounting bracket with locking screw (hexagon screw ST 4.8 x 16 incl. locking washer) for optimum alignment of TALEXengine Line
 - Angle marking for precise alignment of TALEXengine Line
 - Minimum space needed for mounting
 - Metric M4 screws or ST 4.2 self-tapping screws are needed for fixing the mounting bracket (not included)
 - Made from steel 1.4301
 - Matt grey
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Dimensions LxWxH	26 x 15.5 x 20.2 mm
Weight	0.07 kg

Ordering data

Type	Article number
Mounting bracket – adjustable	24166024
Packaging: 10 pieces/carton	



Product matrix, page 448

IP 20  RoHS

TALEXengine FREEZE

TALEXengine FREEZE

Product description

- Deepfreezers in the food industry
 - Available in different lengths, wattages and light colours
 - Complete solution with standard cable
 - High efficiency thanks to directional lighting, integrated heat removal and highly efficient LEDs
 - Optimum product lighting thanks to a combination of COB LEDs and optics
 - Safety extra low voltage (SELV)
 - Simple mounting with end cap and installation aid (double-sided adhesive tape)
 - Cooling section made of anodised, extruded aluminium
 - End caps made of PBT
 - Linear lenses made of PMMA
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Supply current DC	700 mA
Ambient temperature t_a	-30 ... +30 °C
Max. surface temperature on profile	65 °C
Type of protection	IP20
Protection class	III

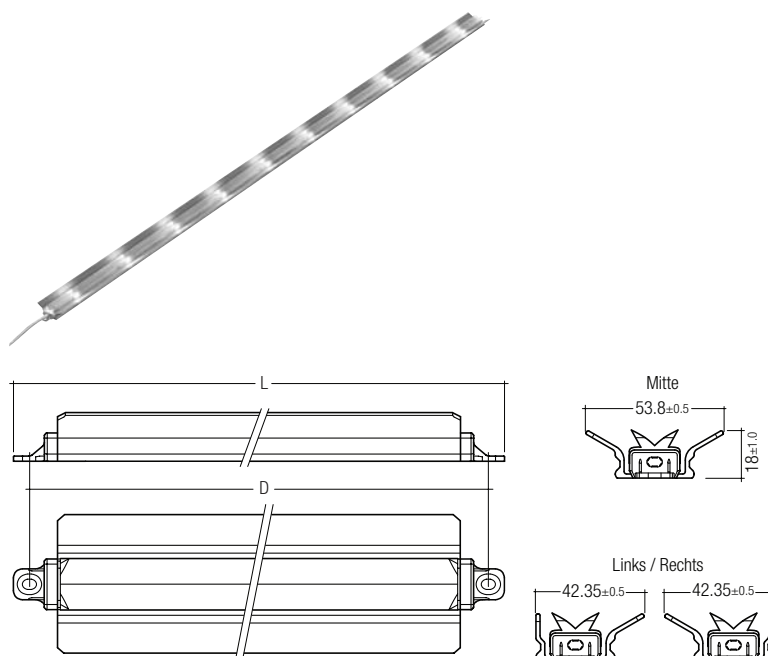


Accessories, mounting bracket, page 501

Product matrix, page 448

Standards, page 448

Colour temperatures and tolerances, page 458



Ordering data

Position	Length L	Colour	Type	Article number
Centre	1,500 mm	Daylight white	LE1500 10P211-3 DL	89600964
Left	1,500 mm	Daylight white	LE1500 10P211-3 DL	89600965
Right	1,500 mm	Daylight white	LE1500 10P211-3 DL	89600966
Centre	1,700 mm	Daylight white	LE1700 12P211-3 DL	89600967
Left	1,700 mm	Daylight white	LE1700 12P211-3 DL	89600968
Right	1,700 mm	Daylight white	LE1700 12P211-3 DL	89600969
Centre	1,500 mm	Neutral white	LE1500 12P211-3 NW	89600970
Left	1,500 mm	Neutral white	LE1500 12P211-3 NW	89600971
Right	1,500 mm	Neutral white	LE1500 12P211-3 NW	89600972
Centre	1,700 mm	Neutral white	LE1700 12P211-3 NW	89600973
Left	1,700 mm	Neutral white	LE1700 12P211-3 NW	89600974
Right	1,700 mm	Neutral white	LE1700 12P211-3 NW	89600975

Specific technical data

Type	Hole spacing D	Typ. luminous flux ^①	Colour rendering index Ra/R _{lf}	Power ^②
LE1500 10P211-3 DL	1,488 mm	1,160 lm	> 70	24.5 W
LE1500 10P211-3 DL	1,488 mm	1,160 lm	> 70	24.5 W
LE1500 10P211-3 DL	1,488 mm	1,160 lm	> 70	24.5 W
LE1700 12P211-3 DL	1,688 mm	1,400 lm	> 70	29.4 W
LE1700 12P211-3 DL	1,688 mm	1,400 lm	> 70	29.4 W
LE1700 12P211-3 DL	1,700 mm	1,400 lm	> 70	29.4 W
LE1500 12P211-3 NW	1,488 mm	1,120 lm	> 70	29.4 W
LE1500 12P211-3 NW	1,488 mm	1,120 lm	> 70	29.4 W
LE1500 12P211-3 NW	1,488 mm	1,120 lm	80	29.4 W
LE1700 12P211-3 NW	1,688 mm	1,120 lm	80	29.4 W
LE1700 12P211-3 NW	1,688 mm	1,120 lm	80	29.4 W
LE1700 12P211-3 NW	1,688 mm	1,120 lm	80	29.4 W

^① Tolerance range for optical data: ±15 %.

^② Luminous flux at T_a -20 °C (TaLED 25 °C).

^③ Tolerance range for electrical data: ±15 %.

IP 20  RoHS

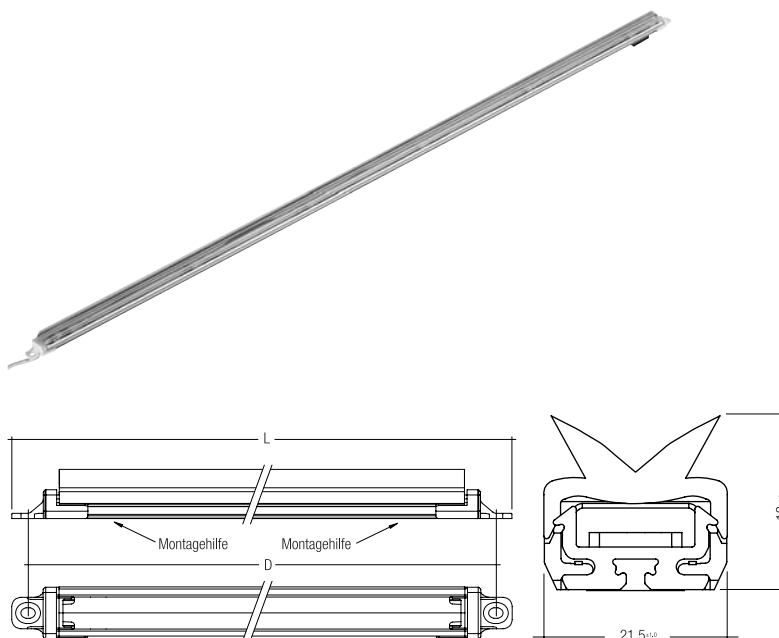
NEW

TALEXengine FREEZE for Integration

TALEXengine FREEZE

Product description

- Deepfreezers in the food industry
 - Available in different lengths, wattages and light colours
 - Complete solution with standard cable
 - High efficiency thanks to directional lighting, integrated heat removal and highly efficient LEDs
 - Optimum product lighting thanks to a combination of COB LEDs and optics
 - Extremely slim solution ensures perfect integration in chillers
 - Safety extra low voltage (SELV)
 - Simple mounting with end cap and installation aid (double-sided adhesive tape)
 - Cooling section made of anodised, extruded aluminium
 - End caps made of PBT
 - Linear lenses made of PMMA
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Supply current DC	700 mA
Ambient temperature t_a	-30 ... +20 °C
Max. surface temperature on profile	65 °C
Type of protection	IP20
Protection class	III

Ordering data

Position	Length L	Colour	Type	Article number
Centre	1,500 mm	Daylight white	LE1500 10P211-3 DL	89600792
Side	1,500 mm	Daylight white	LE1500 6P211-3 DL	89600793
Centre	1,700 mm	Daylight white	LE1700 12P211-3 DL	89600794
Side	1,700 mm	Daylight white	LE1700 7P211-3 DL	89600795
Centre/side	900 mm	Daylight white	LE900 6P211-3 DL	89600817
Centre	1,500 mm	Neutral white	LE1500 12P211-3 NW	89600818
Side	1,500 mm	Neutral white	LE1500 7P211-3 NW	89600819
Centre	1,700 mm	Neutral white	LE1700 12P211-3 NW	89600820
Side	1,700 mm	Neutral white	LE1700 7P211-3 NW	89600821
Centre/side	900 mm	Neutral white	LE900 7P211-3 NW	89600824

Packaging: 1 pieces/carton



Accessories, mounting bracket, page 501

Product matrix, page 448

Standards, page 448

Colour temperatures and tolerances, page 458

Specific technical data

Type	Hole spacing D	Typ. luminous flux ^{① ②}	Colour rendering index Ra/Rff	Power ^③
LE1500 10P211-3 DL	1,488 mm	1,160 lm	75	24.5 W
LE1500 6P211-3 DL	1,488 mm	700 lm	75	14.7 W
LE1700 12P211-3 DL	1,688 mm	1,400 lm	75	29.4 W
LE1700 7P211-3 DL	1,688 mm	820 lm	75	17.2 W
LE900 6P211-3 DL	888 mm	700 lm	75	14.7 W
LE1500 12P211-3 NW	1,488 mm	1,120 lm	80	29.4 W
LE1500 7P211-3 NW	1,488 mm	650 lm	80	17.2 W
LE1700 12P211-3 NW	1,688 mm	1,120 lm	80	29.4 W
LE1700 7P211-3 NW	1,688 mm	650 lm	80	17.2 W
LE900 7P211-3 NW	888 mm	650 lm	80	17.2 W

^① Tolerance range for optical data: ±15 %.

^② Luminous flux at T_a -20 °C (T_c LED 25 °C).

^③ Tolerance range for electrical data: ±15 %.

IP 20  RoHS

NEW

TALEXengine COOL

TALEXengine COOL

Product description

- Chillers in the food industry
- Available in different light colours
- Complete solution with standard cable
- High efficiency thanks to directional lighting, integrated heat removal and highly efficient LEDs
- Optimum product lighting thanks to a combination of COB LEDs and optics
- Extremely slim solution ensures perfect integration in chillers
- Safety extra low voltage (SELV)
- Simple installation with mounting bracket or mounting plate
- Cooling section made of anodised, extruded aluminium
- End caps made of PBT
- Linear lenses made of PMMA

→ For product data sheet go to www.tridonic.com, or available on request

Technical data

Ambient temperature t_a	-30 ... +30 °C
Max. surface temperature on profile	60 °C
Type of protection	IP20
Protection class	III

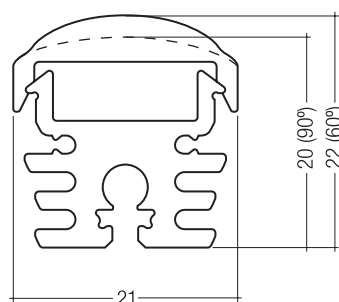
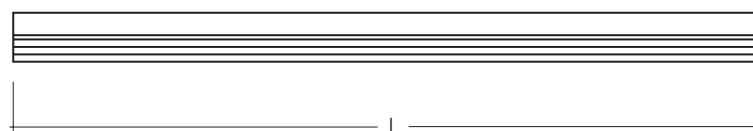


Accessories, mounting bracket, page 501

Product matrix, page 448

Standards, page 448

Colour temperatures and tolerances, page 458



Ordering data

Position ^①	Length L	Colour	Type ^②	Article number
Canopy	1,200 mm	Neutral white	LE1200 7P130-2 NW	89600905
Canopy	1,200 mm	Cool meat	LE1200 7P130-2 CM2	89600827
Undershelf	1,200 mm	Neutral white	LE1200 5P130-2 NW	89600906
Undershelf	1,200 mm	Cool meat	LE1200 5P130-2 CM2	89600828

Packaging: 1 pieces/carton

^① For a optimal illumination of goods use both the canopy and undershelf version.

^② Tolerance range for optical data: ±15 %.

Specific technical data

Type	Beam angle	Typ. luminous flux ^②	Supply voltage DC ^③	Colour rendering index Ra/Rff ^④	Power ^⑤
LE1200 7P130-2 NW	60°	615 lm	24 V	80	21 W
LE1200 7P130-2 CM2	60°	510 lm	24 V	80	21 W
LE1200 5P130-2 NW	90°	440 lm	24 V	80	15 W
LE1200 5P130-2 CM2	90°	365 lm	24 V	80	15 W

^① Tolerance range for optical data: ±15 %.

^② Luminous flux at T_a 0 °C.

^③ Exceeding the max. operating voltage leads to an overload on the TALEX module. This may in turn result in a significant reduction in lifetime or even in destruction. Tolerance range for the supply voltage: +2 V / -0 V.

^④ Rff (Cool meat): special colour rendering index for illuminating meat and meat products to DIN 10504.

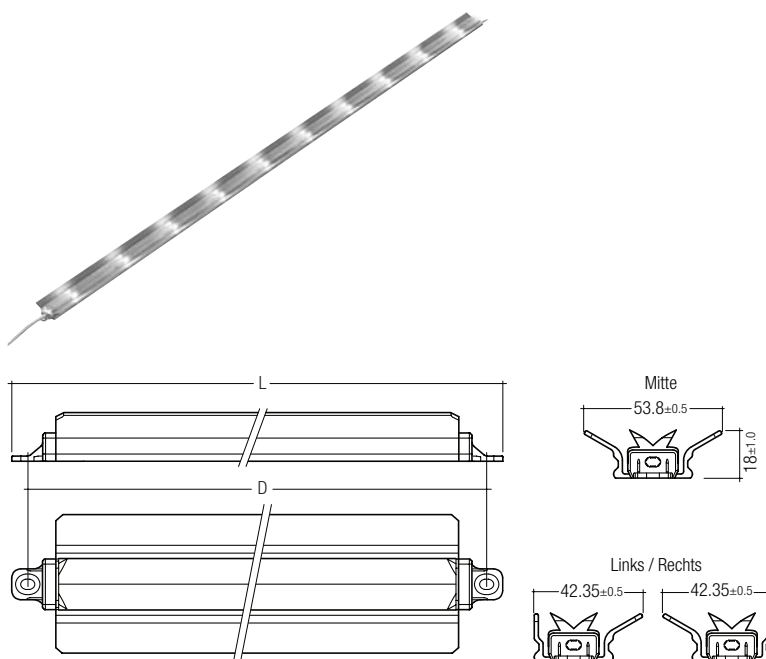
^⑤ Tolerance range for electrical data: ±15 %.

IP 20  RoHS

TALEXengine COOL door TALEXengine COOL

Product description

- Chillers with doors in the food industry
 - Available in different light colours and wattages
 - Complete solution with standard cable
 - High efficiency thanks to directional lighting, integrated heat removal and highly efficient LEDs
 - Optimum product lighting thanks to a combination of COB LEDs and optics
 - Safety extra low voltage (SELV)
 - Simple mounting with end cap and installation aid (double-sided adhesive tape)
 - Cooling section made of anodised, extruded aluminium
 - End caps made of PBT
 - Linear lenses made of PMMA
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Supply current DC	700 mA
Ambient temperature t_a	-30 ... +30 °C
Max. surface temperature on profile	65 °C
Type of protection	IP20
Protection class	III

Ordering data

Position	Length L	Colour	Type	Article number
Centre	1,500 mm	Neutral white	LE1500 12P211-3 NW	89600970
Left	1,500 mm	Neutral white	LE1500 12P211-3 NW	89600971
Right	1,500 mm	Neutral white	LE1500 12P211-3 NW	89600972
Centre	1,700 mm	Neutral white	LE1700 12P211-3 NW	89600973
Left	1,700 mm	Neutral white	LE1700 12P211-3 NW	89600974
Right	1,700 mm	Neutral white	LE1700 12P211-3 NW	89600975
Centre	1,500 mm	Cool meat	LE1500 12P211-3 CM2	89601025
Left	1,500 mm	Cool meat	LE1500 12P211-3 CM2	89601026
Right	1,500 mm	Cool meat	LE1500 12P211-3 CM2	89601027
Centre	1,700 mm	Cool meat	LE1700 12P211-3 CM2	89600987
Left	1,700 mm	Cool meat	LE1700 12P211-3 CM2	89600988
Right	1,700 mm	Cool meat	LE1700 12P211-3 CM2	89600989

Specific technical data

Type	Hole spacing D	Typ. luminous flux ^{① ②}	Colour rendering index Ra/Rff ^③	Power ^④
LE1500 12P211-3 NW	1,488 mm	1,055 lm	80	29.4 W
LE1500 12P211-3 NW	1,488 mm	1,055 lm	80	29.4 W
LE1500 12P211-3 NW	1,488 mm	1,055 lm	80	29.4 W
LE1700 12P211-3 NW	1,688 mm	1,055 lm	80	29.4 W
LE1700 12P211-3 NW	1,688 mm	1,055 lm	80	29.4 W
LE1700 12P211-3 NW	1,688 mm	1,055 lm	80	29.4 W
LE1500 12P211-3 CM2	1,488 mm	1,100 lm	> 75	29.4 W
LE1500 12P211-3 CM2	1,488 mm	1,100 lm	> 75	29.4 W
LE1500 12P211-3 CM2	1,488 mm	1,100 lm	> 75	29.4 W
LE1700 12P211-3 CM2	1,688 mm	1,100 lm	> 75	29.4 W
LE1700 12P211-3 CM2	1,688 mm	1,100 lm	> 75	29.4 W
LE1700 12P211-3 CM2	1,688 mm	1,100 lm	> 75	29.4 W

^① Tolerance range for optical data: ±15 %.

^② Luminous flux at T_a 0 °C.

^③ Rff (Cool meat): special colour rendering index for illuminating meat and meat products to DIN 10504.

^④ Tolerance range for electrical data: ±15 %.

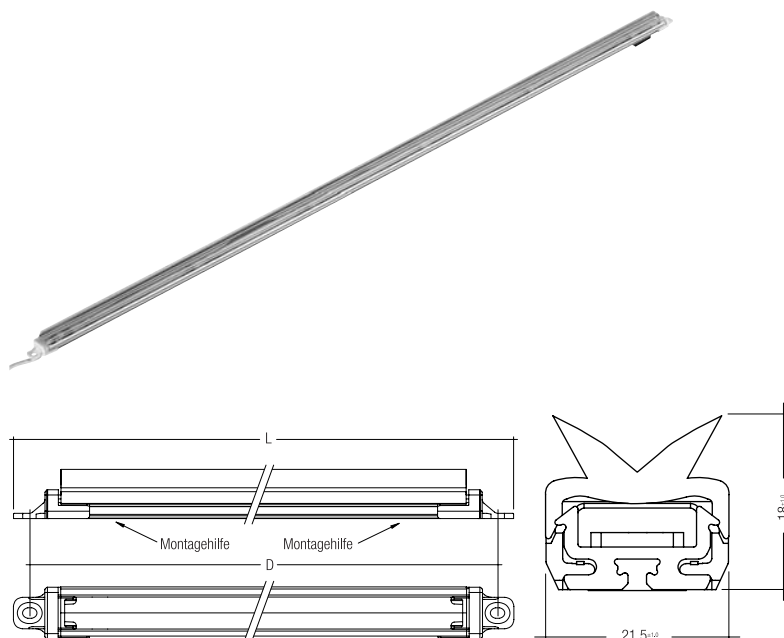
IP 20  RoHS

NEW

TALEXengine COOL door for Integration TALEXengine COOL

Product description

- Chillers with doors in the food industry
 - Available in different light colours and wattages
 - Complete solution with standard cable
 - High efficiency thanks to directional lighting, integrated heat removal and highly efficient LEDs
 - Optimum product lighting thanks to a combination of COB LEDs and optics
 - Extremely slim solution ensures perfect integration in chiller cabinets
 - Safety extra low voltage (SELV)
 - Simple mounting with end cap and installation aid (double-sided adhesive tape)
 - Cooling section made of anodised, extruded aluminium
 - End caps made of PBT
 - Linear lenses made of PMMA
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Supply current DC	700 mA
Ambient temperature t_a	-30 ... +20 °C
Max. surface temperature on profile	65 °C
Type of protection	IP20
Protection class	III

Ordering data

Position	Length L	Colour	Type	Article number
Centre	1,500 mm	Neutral white	LE1500 12P211-3 NW	89600818
Side	1,500 mm	Neutral white	LE1500 7P211-3 NW	89600819
Centre	1,500 mm	Cool meat	LE1500 12P211-3 CM2	89600822
Side	1,500 mm	Cool meat	LE1500 7P211-3 CM2	89600823

Packaging: 1 pieces/carton



Accessories, mounting bracket, page 501

Product matrix, page 448

Standards, page 448

Colour temperatures and tolerances, page 458

Specific technical data

Type	Hole spacing D	Typ. luminous flux ^① Φ_v	Colour rendering index R_a/R_{ff} ^②	Power ^③
LE1500 12P211-3 NW	1,488 mm	615 lm	80	17.2 W
LE1500 7P211-3 NW	1,488 mm	615 lm	80	17.2 W
LE1500 12P211-3 CM2	1,488 mm	1,100 lm	80	29.4 W
LE1500 7P211-3 CM2	1,488 mm	640 lm	80	17.2 W

^① Tolerance range for optical data: $\pm 15\%$.

^② Luminous flux at $T_a 0^\circ\text{C}$.

^③ R_{ff} (Cool meat): special colour rendering index for illuminating meat and meat products to DIN 10504.

^④ Tolerance range for electrical data: $\pm 15\%$.

IP 20  RoHS

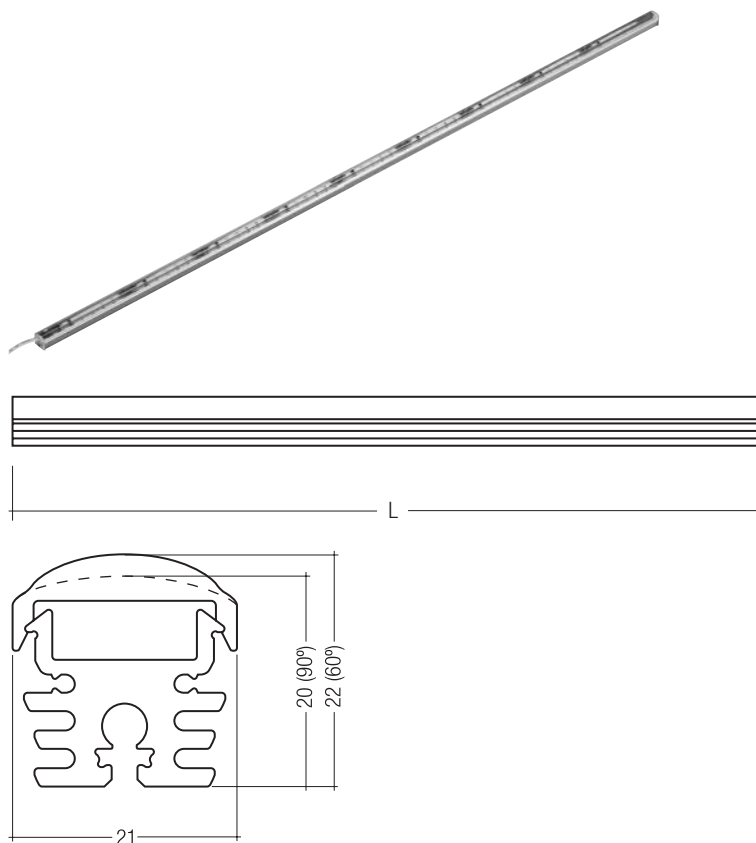
NEW

TALEXengine SERVE

TALEXengine SERVE

Product description

- Chiller cabinets in the food industry
 - Available in different light colours
 - Complete solution with standard cable
 - High efficiency thanks to directional lighting, integrated heat removal and highly efficient LEDs
 - Optimum product lighting thanks to a combination of COB LEDs and optics
 - Extremely slim solution ensures perfect integration in chiller cabinets
 - Safety extra low voltage (SELV)
 - Simple installation with mounting bracket or mounting plate
 - Cooling section made of anodised, extruded aluminium
 - End caps made of aluminium
 - Linear lenses made of PMMA
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Ambient temperature t_a	-30 ... +30 °C
Max. surface temperature on profile	60 °C
Type of protection	IP20
Protection class	III

Ordering data

Length L	Colour	Type	Article number
1,100 mm	Cool meat	LE1100 9P130-2 CM2	89600829
1,100 mm	Gold	LE1100 9P130-2 GOLD	89600830

Packaging: 1 pieces/carton

Specific technical data

Type	Beam angle	Typ. luminous flux ^①	Supply voltage DC ^②	Colour rendering index Ra/Rff ^③	Power ^④
LE1100 9P130-2 CM2	90°	610 lm	24 V	80	27 W
LE1100 9P130-2 GOLD	90°	455 lm	24 V	> 90	27 W

① Tolerance range for optical data: ±15 %.

② Luminous flux at T_a 0 °C.

③ Exceeding the max. operating voltage leads to an overload on the TALEX module. This may in turn result in a significant reduction in lifetime or even in destruction. Tolerance range for the supply voltage: +2 V / -0 V.

④ Rff (Cool meat): special colour rendering index for illuminating meat and meat products to DIN 10504.

⑤ Tolerance range for electrical data: ±15 %.



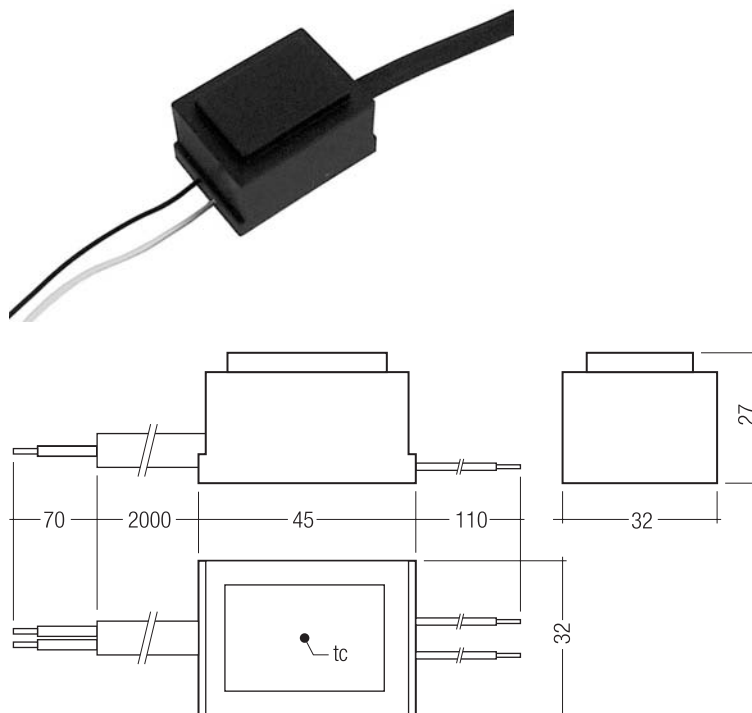
TALEXconverter 0001 K010 24 V
Constant voltage

Product description

- Constant voltage converter
 - For TALEX modules
 - Short-circuit protection
 - Compact dimensions
 - Easy to install with 2 self-tapping screws
 - Integrated rectifier with smoothing
 - Connecting cable, primary: rubber cable H05RN-F, 2 x 1 mm², black, 2 m, with end sleeves: blue > neutral conductor, brown > phase
 - Connecting cable, secondary, 100 mm long, -> 0.34 mm², 10 mm tin-plated, + white, - black
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Rated supply voltage	230 V
Input voltage, AC	207 – 253 V
Rated current (at 230 V 50 Hz)	0.016 A
Mains frequency	50 Hz
Efficiency ^①	> 40 %
Output power	1.5 W
Ambient temperature ta	-25 ... +45 °C
Weight	0.22 kg
Dimensions LxWxH	45 x 32 x 27 mm
Hole spacing D	25 mm



Ordering data

Secondary voltage DC	Type	Article number
24 V	0001 K010 24 V	86456625

Packaging: 20 pieces/carton

^① At nominal load 1.5 W.



Product matrix, page 448

Standards, page 448

Wiring diagrams and installation examples, page 535



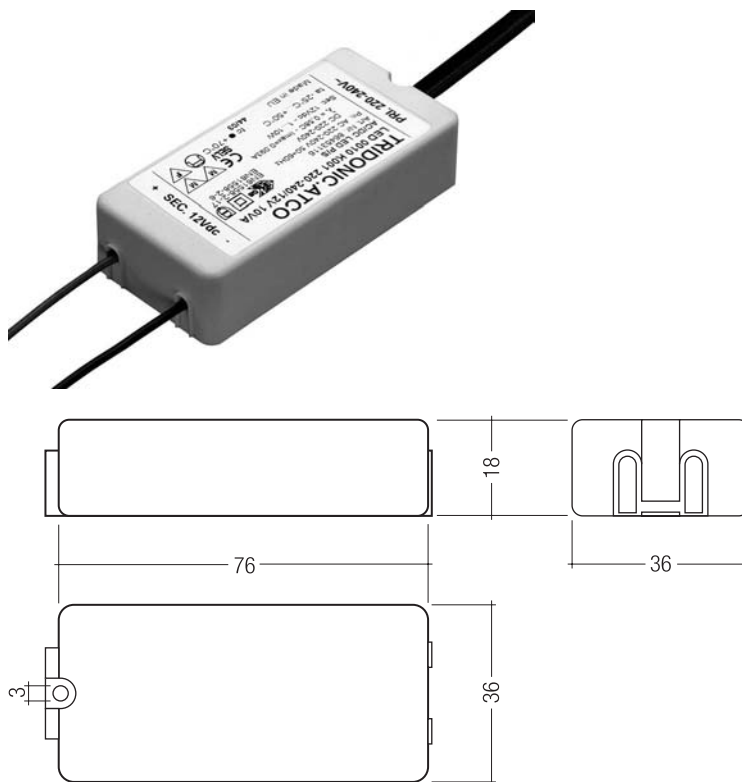
TALEXconverter 0010 K001 8/12/24 V
Constant voltage

Product description

- Constant voltage converter
 - For TALEX modules
 - Only for indoor use
 - Compact dimensions
 - Constant output voltage
 - Overtemperature protection
 - Overload protection by restricting output
 - Short-circuit protection with automatic restart
 - Connection: Cable with end sleeves (length approx. 200 mm)
 - Connecting cable, supply side: 2 x 0.75 mm², H03VV H2-F
 - Casing: Nylon natural white 66
 - Overtemperature and overload protection with power regulation
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Rated supply voltage	220 – 240 V
Input voltage, AC	198 – 254 V
Eingangsspannungsbereich DC	176 – 280 V
Mains frequency	0 / 50 / 60 Hz
Output power	1 – 7 W
Ambient temperature ta	-25 ... +50 °C
Weight	0.05 kg
Dimensions LxWxH	76 x 36 x 18 mm



Ordering data

Secondary voltage DC	Type	Article number
8 V	0007 K001 8 V	86453107
12 V	0010 K001 12 V	86453116
24 V	0010 K001 24 V	86453122

Packaging: 40 pieces/carton



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Specific technical data

Type	Rated current (at 230 V 50 Hz)	Efficiency
0007 K001 8 V	80 mA	> 60 %
0010 K001 12 V	93 mA	> 60 %
0010 K001 24 V	95 mA	> 60 %



TALEXconverter 0010 K301 8/12/24 V
Constant voltage

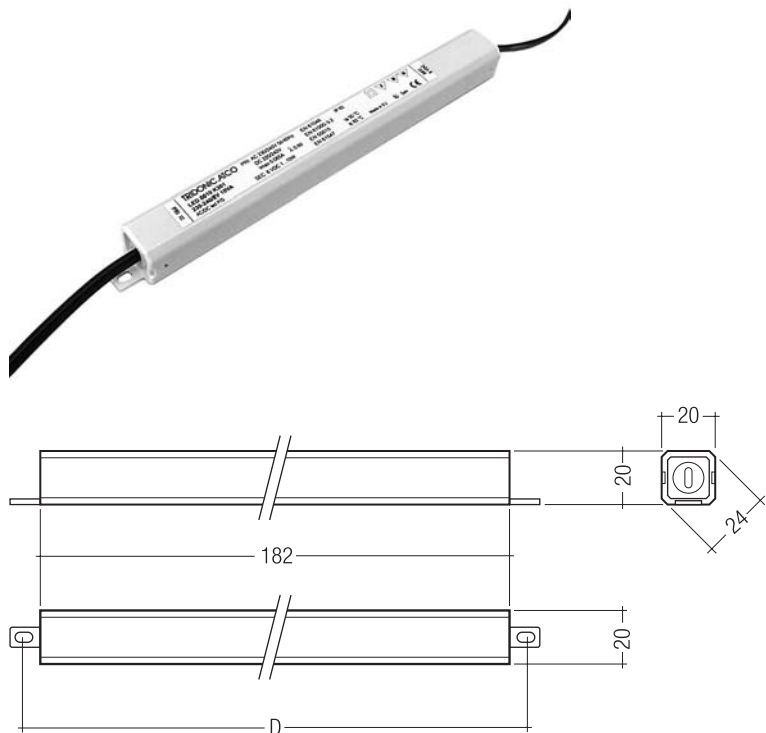
Product description

- Constant voltage converter
- For TALEX modules
- Short-circuit protection with automatic restart
- Overtemperature protection
- Overload protection by restricting output
- Constant output voltage
- Compact slimline casing
- Connection: Cable with end sleeves (length approx. 150 mm)
- SELV

→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

Rated supply voltage AC	230 / 240 V
Input voltage, AC	200 – 254 V
Eingangsspannungsbereich DC	200 – 240 (160) V [®]
Mains frequency	0 / 50 / 60 Hz
Output power	1 – 10 W
Ambient temperature ta	-25 ... +50 °C
Weight	0.05 kg
Dimensions LxWxH	182 x 20 x 20 mm



Ordering data

Secondary voltage DC	Type	Article number
8 V	0010 K301 8 V	86456196
12 V	0010 K301 12 V	86456206
24 V	0010 K301 24 V	86456215

Packaging: 30 pieces/carton



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Specific technical data

Type	Rated current (at 230 V 50 Hz)	Efficiency	Hole spacing D
0010 K301 8 V	0.085 A	> 80 %	194 mm
0010 K301 12 V	0.085 A	> 80 %	194 mm
0010 K301 24 V	0.085 A	> 80 %	194 mm

[®] After power up with higher voltage, the device will work with a reduced voltage as specified above.



TALEXconverter 0025 K220 8/12/24 V
Constant voltage

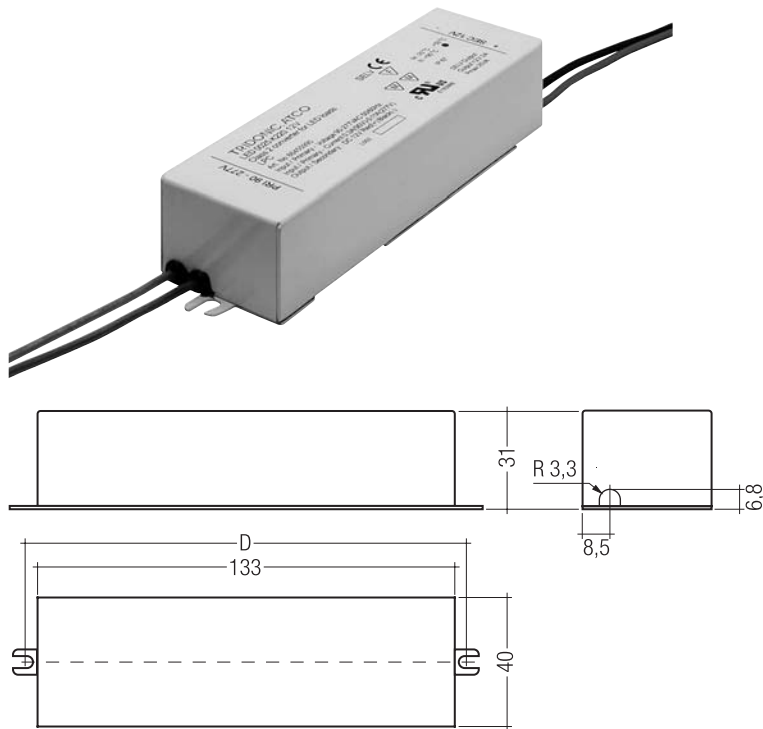
Product description

- Constant voltage converter
- For TALEX modules
- Universal input voltage range
- Short-circuit protection with automatic restart
- Overtemperature protection
- Overload protection by restricting output
- Constant output voltage
- Metal casing white, encapsulated
- Connection: Cable with end sleeves (length approx. 500 mm)

→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

Rated supply voltage AC	100 / 230 / 277 V
Input voltage, AC	90 – 300 V
Eingangsspannungsbereich DC	110 – 300 V
Mains frequency	0 / 50 / 60 Hz
Output power	25 W
Ambient temperature t_a	-25 ... +50 °C
Weight	0.3 kg
Dimensions LxWxH	133 x 40 x 31 mm



Ordering data

Secondary voltage DC	Type	Article number
8 V	0025 K220 8V	86455943
12 V	0025 K220 12V	86455990
24 V	0025 K220 24V	86456003

Packaging: 24 pieces/carton

Specific technical data

Type	Rated current (at 230 V 50 Hz)	Efficiency	Hole spacing D
0025 K220 8V	0.12 A	> 80 %	142 mm
0025 K220 12V	0.12 A	> 80 %	142 mm
0025 K220 24V	0.12 A	> 82 %	142 mm



TALEXconverter 0100 K240 8/12/24 V 100 VA
Constant voltage

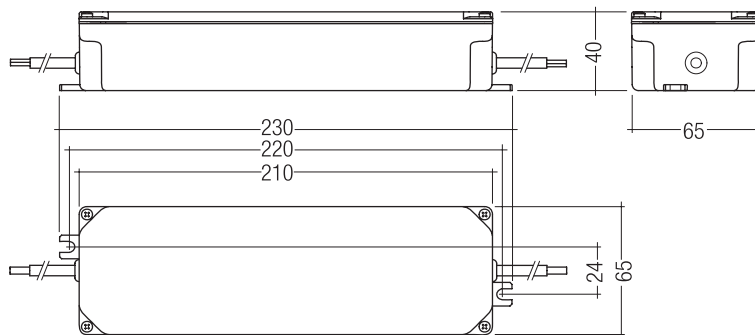
Product description

- Constant voltage converter
- For TALEX modules
- Universal input voltage range
- Short-circuit protection with automatic restart
- Constant output voltage
- Overtemperature protection
- Overload protection by restricting output
- Connection: Cable with end sleeves (length approx. 2000 mm)
- Metal casing white, encapsulated
- SELV

→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

Rated supply voltage AC	120 / 230 / 240 V
Input voltage, AC	100 – 264 V
Eingangsspannungsbereich DC	120 – 240 V
Mains frequency	0 / 50 / 60 Hz
Output power	10 – 100 W
Ambient temperature ta	-30 ... +50 °C
Weight	1 kg
Dimensions LxWxH	210 x 60 x 40 mm



Ordering data

Secondary voltage DC	Type	Article number
8 V	0100 K240 8 V	24138974
12 V	0100 K240-2 12 V	24166199
24 V	0100 K240 24 V	24138976

Packaging: 20 pieces/carton



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Specific technical data

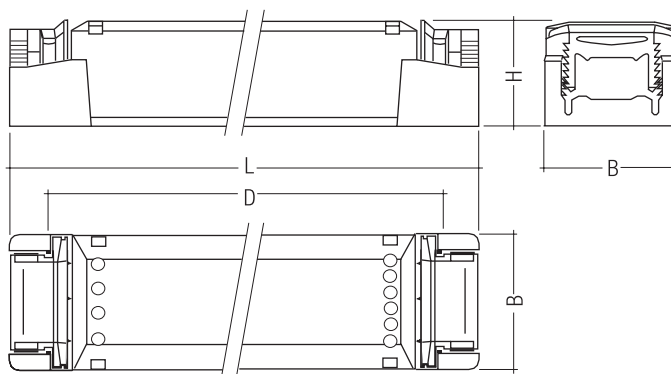
Type	Rated current (at 230 V 50 Hz)	Efficiency	Hole spacing D
0100 K240 8 V	0.6 A	> 80 %	220 mm
0100 K240-2 12 V	0.6 A	> 80 %	220 mm
0100 K240 24 V	0.6 A	> 80 %	220 mm



TALEXconverter 0025 K201 24 V
Constant voltage

Product description

- Constant voltage converter
 - For TALEX modules
 - Constant output voltage
 - Short-circuit protection with automatic restart
 - DC supply possible
 - Cage-type screw terminal
 - 6-pole terminal on secondary side
 - Rapid installation of cable clamp and terminal cover, no tool required
 - Cross-section of connecting cable: 2.5 mm²
 - Connecting cable, supply side: H03VV-F, H05VV-F
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	230 V
Input voltage, AC	198 – 254 V
Eingangsspannungsbereich DC	200 – 240 (160) V ^①
Rated current (at 230 V 50 Hz)	0.13 A
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 82 %
Output power	25 W
Ambient temperature t _a	-25 ... +45 °C
Weight	0.15 kg
Dimensions LxWxH	167 x 42 x 31 mm
Hole spacing D	143 – 148 mm

Ordering data

Secondary voltage DC	Type	Article number
24 V	0025 K201 24 V	86453418

Packaging: 20 pieces/carton

^① After power up with higher voltage, the device will work with a reduced voltage as specified above.

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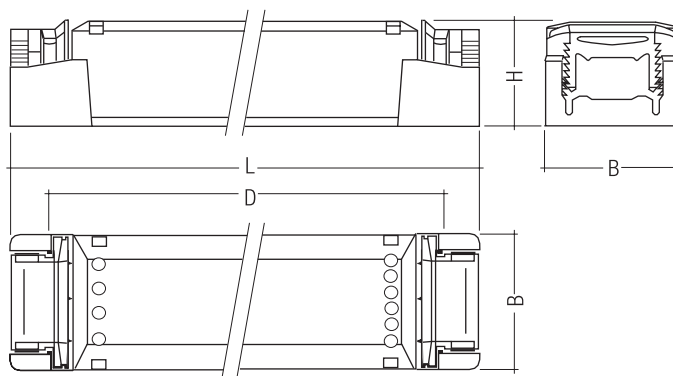
TALEXconverter 0025 K210 24 V one4all
for TALEX modules

Product description

- 1-channel one4all converter
 - For 24 V LED modules
 - Dimming range 0.1 to 100 %
 - Short-circuit protection with automatic restart
 - DC supply possible
 - Rapid installation of cable clamp and terminal cover, no tool required
 - Overtemperature protection
 - 1 addressable output channel
 - Cross-section of connecting cable: 2.5 mm²
 - Connecting cable, supply side: H03VV-F, H05VV-F
 - PWM signal output: 24 V DC
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Rated supply voltage	230 V
Input voltage, AC	198 – 254 V
Eingangsspannungsbereich DC	200 – 240 (160) V ^①
Rated current (at 230 V 50 Hz)	0.13 A
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 82 %
Output power	25 W
Dimming	DSI, DALI, switchDIM – single switch
Ambient temperature t _a	-25 ... +45 °C
Weight	0.15 kg
Dimensions LxWxH	167 x 42 x 31 mm
Hole spacing D	143 – 148 mm



Ordering data

Secondary voltage DC	Type	Article number
24 V	0025 K210 24 V	86455937

Packaging: 20 pieces/carton

^① After power up with higher voltage, the device will work with a reduced voltage as specified above.



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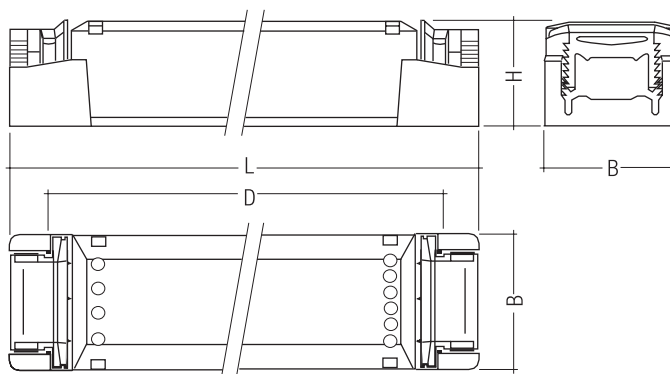
Wiring diagrams and installation examples, page 535



TALEXconverter 0025 K211 24 V
for TALEX modules

Product description

- 3-channel DALI dimming controller
 - For 24 V LED modules
 - Dimming range 0.1 to 100 %
 - With integrated sequencer for standalone operation (factory default: activated)
 - Overtemperature protection
 - Short-circuit shutdown feature with automatic restart
 - DC supply possible
 - DALI control input
 - 3 addressable output channels
 - Cage-type screw terminal
 - 6-pole terminal on secondary side
 - Rapid installation of cable clamp and terminal cover, no tool required
 - Cross-section of connecting cable: 2.5 mm²
 - Connecting cable, supply side: H03VV-F, H05VV-F
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Rated supply voltage	230 V
Input voltage, AC	198 – 254 V
Eingangsspannungsbereich DC	200 – 240 (160) V ^①
Rated current (at 230 V 50 Hz)	0.13 A
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 82 %
Output power	3 x 8 W
Dimming	DALI
Ambient temperature t _a	-25 ... +45 °C
Weight	0.15 kg
Dimensions LxWxH	167 x 42 x 31 mm
Hole spacing D	143 – 148 mm

Ordering data

Secondary voltage DC	Type	Article number
24 V	0025 K211 24 V	86455066

Packaging: 20 pieces/carton

^① After power up with higher voltage, the device will work with a reduced voltage as specified above.



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TALEXconverter 0001 K350 1.5 VA 350 mA
Constant current

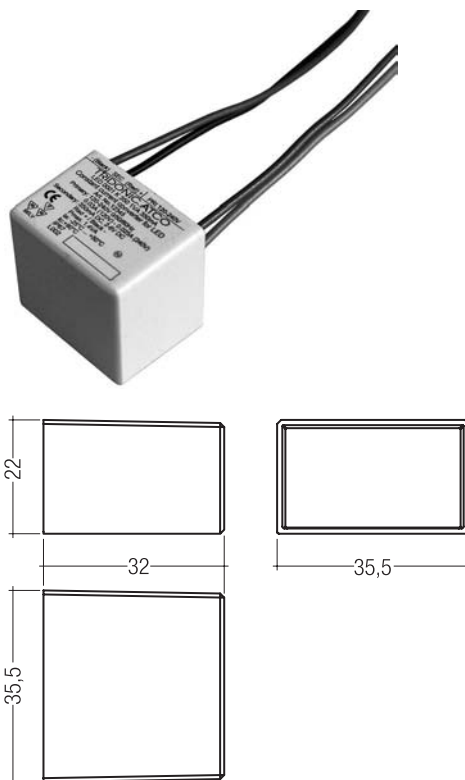
Product description

- Constant current converter
- For TALEXeos modules
- Universal input voltage range
- Compact dimensions
- Overtemperature protection
- Overload protection by restricting output
- Connection: Cable with end sleeves (length approx. 200 mm)
- Plastic casing white, encapsulated
- SELV

→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

Rated supply voltage AC	120 / 230 / 240 V
Input voltage, AC	100 – 264 V
Eingangsspannungsbereich DC	120 – 240 V
Rated current (at 230 V 50 Hz)	0.08 A
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 50 %
Output power	1.4 W
Ambient temperature ta	-25 ... +50 °C
Weight	0.1 kg
Dimensions LxWxH	35.5 x 32 x 22 mm



Ordering data

Secondary voltage DC	Secondary current	Type	Article number
4 V	0.35 A	0001 K350	24139068

Packaging: 20 pieces/carton



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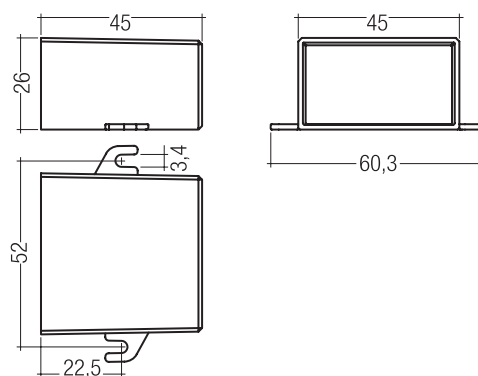


TALEXconverter 0005 K350 5 VA 350 mA
Constant current

Product description

- Constant current converter
- For TALEXeos modules
- Universal input voltage range
- Compact dimensions
- Overtemperature protection
- Overload protection by restricting output
- Connection: Cable with end sleeves (length approx. 200 mm)
- Plastic casing white, encapsulated
- SELV

→ For product data sheet go to www.tridonic.com,
or available on request



Technical data

Rated supply voltage AC	120 / 230 / 240 V
Input voltage, AC	100 – 264 V
Eingangsspannungsbereich DC	120 – 240 V
Rated current (at 230 V 50 Hz)	0.08 A
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 75 %
Output power	5.6 W
Ambient temperature ta	-25 ... +50 °C
Weight	0.1 kg
Dimensions LxWxH	45 x 45 x 26 mm
Hole spacing D	52 mm

Ordering data

Secondary voltage DC	Secondary current	Type	Article number
20 V	0.35 A	0005 K350	24139069

Packaging: 20 pieces/carton



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TALEXconverter 0010 K350 10 VA 350 mA
Constant current

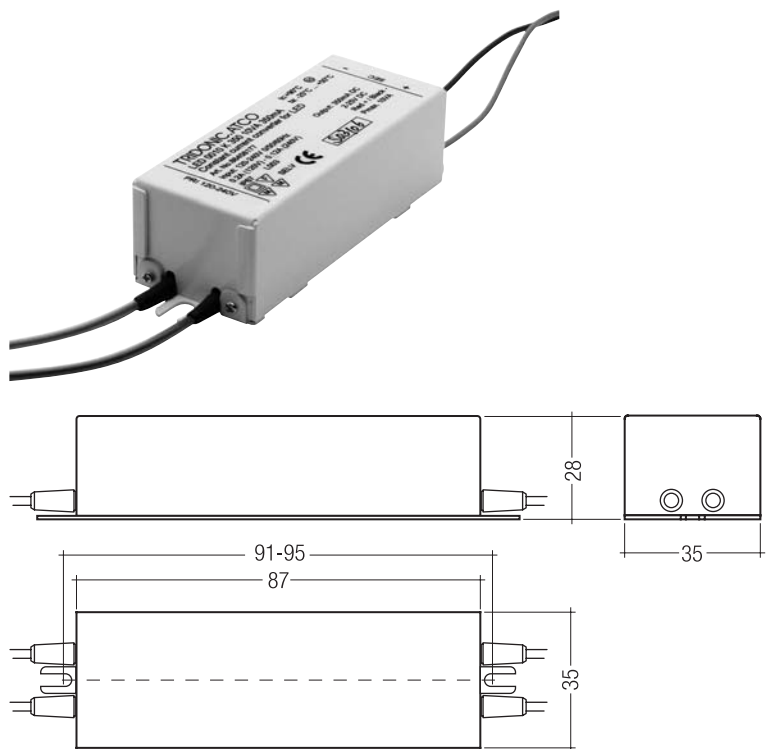
Product description

- Constant current converter
- For TALEXeos modules
- Universal input voltage range
- Overtemperature protection
- Overload protection by restricting output
- Short-circuit protection with automatic restart
- Connection: Cable with end sleeves (length approx. 500 mm)
- Metal casing white, encapsulated
- SELV

→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

Rated supply voltage AC	120 / 230 / 240 V
Input voltage, AC	100 – 264 V
Eingangsspannungsbereich DC	120 – 240 V
Rated current (at 230 V 50 Hz)	0.12 A
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 78 %
Output power	10 W
Ambient temperature ta	-25 ... +50 °C
Weight	0.09 kg
Dimensions LxWxH	87 x 35 x 28 mm
Hole spacing D	93 mm



Ordering data

Secondary voltage DC	Secondary current	Type	Article number
25 V	0.35 A	0010 K350	86458177

Packaging: 20 pieces/carton



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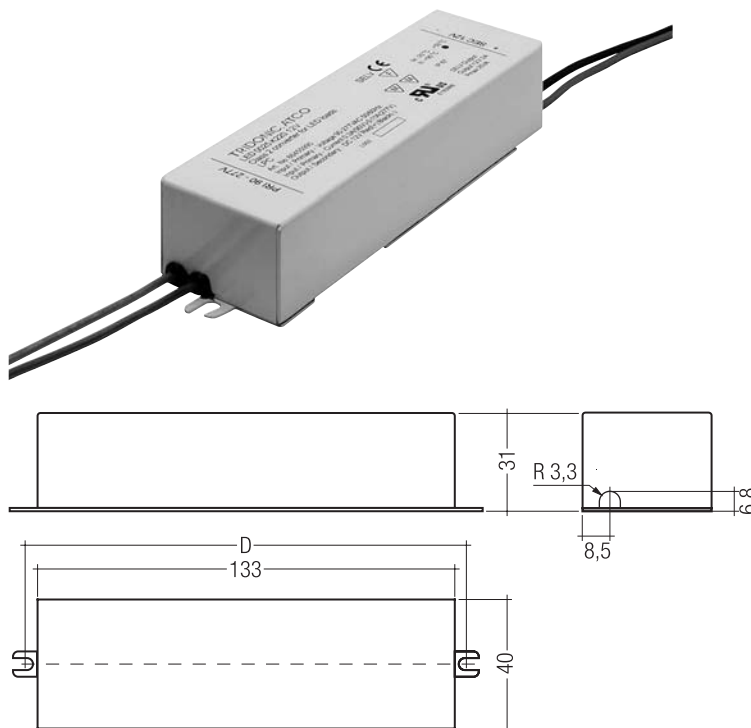
TALEXconverter 0015 K350 15 VA 350 mA
Constant current

Product description

- Constant current converter
 - For TALEXeos modules
 - Universal input voltage range
 - Overtemperature protection
 - Overload protection by restricting output
 - Connection: Cable with end sleeves (length approx. 500 mm)
 - Metal casing white, encapsulated
 - SELV
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Rated supply voltage AC	120 / 230 / 240 V
Input voltage, AC	100 – 264 V
Eingangsspannungsbereich DC	120 – 240 V
Rated current (at 230 V 50 Hz)	0.25 – 1 A
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 80 %
Output power	15 W
Ambient temperature t_a	-25 ... +50 °C
Weight	0.3 kg
Dimensions LxWxH	133 x 40 x 31 mm
Hole spacing D	142 mm



Ordering data

Secondary voltage DC	Secondary current	Type	Article number
48 V	0.35 A	0015 K350	24139070

Packaging: 20 pieces/carton



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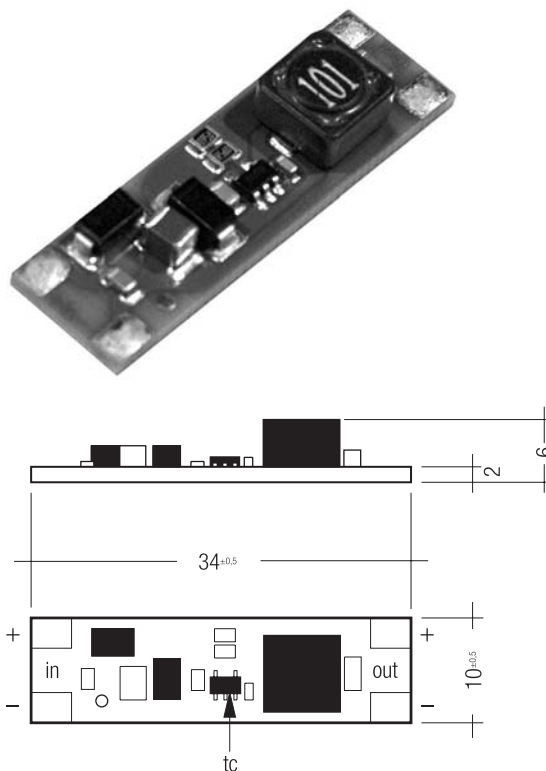
TALEXcontrol C350-2 12 – 24 V DC / 350 mA 8 VA
Constant current

Product description

- Constant current converter 350 mA for TALEXeos modules
 - Suitable for centrally supplied LED installations
 - Compact dimensions
 - Simple installation thanks to pre-fitted adhesive tape
 - No-load and overtemperature protection
 - Connection: Solder points
 - Suitable for mounting on Tridonic profiles
 - Attached with premounted thermally conductive adhesive tape
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Input voltage, DC	12 – 24 V
Max. input voltage DC	29 V
Efficiency	> 85 %
Output voltage	max. 22 V ($U_m - 2$ V)
Output power	8 W
Max. power loss	0.65 W
Output current	0.35 A
Max. cable length (converter – LED module)	20 m
Ambient temperature t_a	-25 ... +50 °C
Max. casing temperature	80 °C
Weight	0.003 kg
Dimensions LxWxH	34 x 10 x 6 mm



Ordering data

Type	Article number
C350-2 12-24VDC	86458453
Packaging: 50 pieces/carton	



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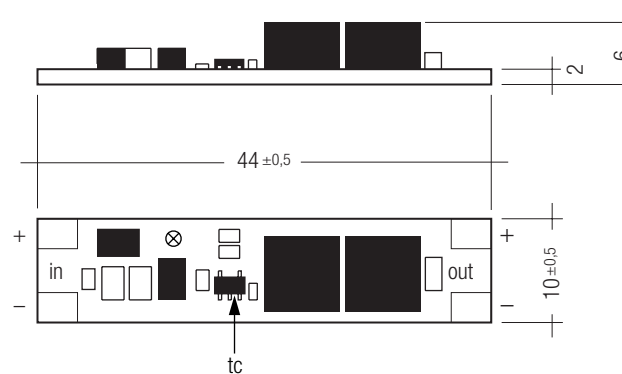
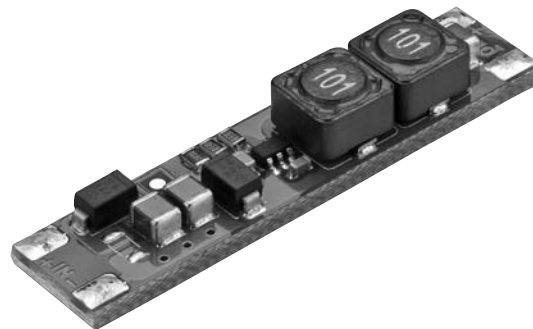
TALEXcontrol C700 12 – 24 V DC / 700 mA 16 VA
Constant current

Product description

- Constant current converter 700 mA for TALEXeos modules
 - Suitable for centrally supplied LED installations
 - Slim compact design
 - No-load and overtemperature protection
 - Connection: Solder points
 - Premounted thermally conductive adhesive tape
 - Suitable for mounting on Tridonic profiles
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Input voltage, DC	12 – 24 V
Max. input voltage DC	29 V
Efficiency	> 85 %
Output voltage	max. 22 V ($U_{in} - 2$ V)
Output power	16 W
Max. power loss	0.65 W
Output current	0.7 A
Max. cable length (converter – LED module)	20 m
Ambient temperature t_a	-25 ... +50 °C
Max. casing temperature	80 °C
Weight	0.005 kg
Dimensions LxWxH	44 x 10 x 6 mm



Ordering data

Type	Article number
C700 12-24VDC	86458513
Packaging: 50 pieces/carton	



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NEW

TALEXcontrol C350 dim

Constant current

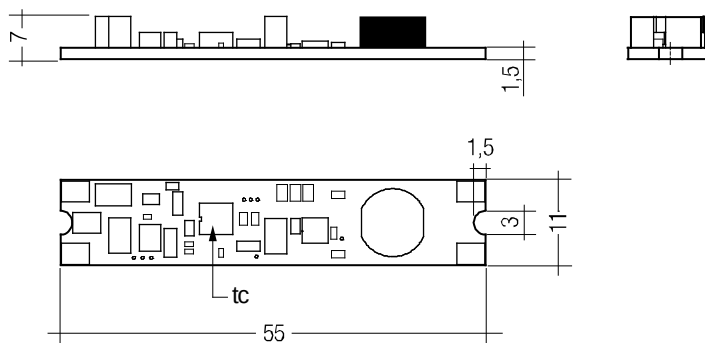
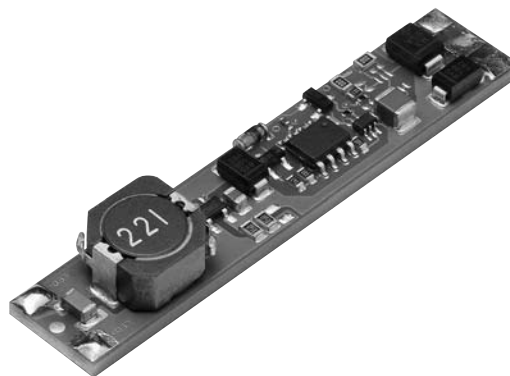
Product description

- Constant current converter 350 mA for TALEXeos modules
- Dimming range 10 to 100 %
- Dimmable via switch or potentiometer (designed for a 100 kΩ potentiometer)
- Step circuit
- Suitable for centrally supplied LED installations
- Slim compact design
- No-load and short-circuit protection (on the output side)
- Reverse polarity protection
- Connection: Solder points
- Attached with premounted thermally conductive adhesive tape
- Suitable for mounting on Tridonic profiles
- No overvoltage protection
- SELV

→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

Input voltage, DC ^①	8 – 48 V
Efficiency ^②	> 85 %
Output voltage ($U_m < 30 \text{ V}$) ^②	2.5 V bis ($U_m - 3 \text{ V}$)
Output voltage ($U_m \geq 30 \text{ V}$) ^②	5 V bis ($U_m - 3 \text{ V}$)
Max. power loss	1.6 W
Output current	350 +/- 10 % mA
Ambient temperature t_a	-25 ... +50 °C
Max. casing temperature	85 °C
Weight	0.005 kg
Dimensions LxWxH	55 x 11 x 7 mm



Ordering data

Type	Article number
LED C350 12-48VDC 16VA dim	86458944

Packaging: 50 pieces/carton

^① Output voltage depends on supply voltage and the number of connected TALEX modules ($U_m - 3 \text{ V}$).

^② A heat sink must be used for 24 V and higher (e.g. Z201-2).

^③ Efficiency depends on the load on TALEXcontrol LED C350. An efficiency of up to 95 % is possible.



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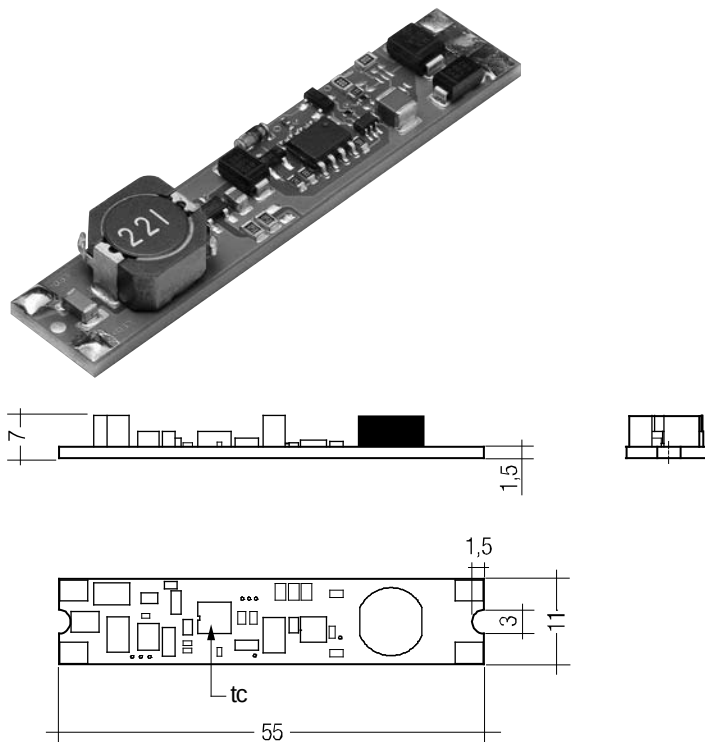
NEW

TALEXcontrol C700 dim

Constant current

Product description

- Constant current converter 350 mA for TALEXeos modules
 - Dimming range 10 to 100 %
 - Dimmable via switch or potentiometer
(designed for a 100 kΩ potentiometer)
 - Step circuit
 - Suitable for centrally supplied LED installations
 - Slim compact design
 - No-load and short-circuit protection (on the output side)
 - Reverse polarity protection
 - Connection: Solder points
 - Attached with premounted thermally conductive adhesive tape
 - Suitable for mounting on Tridonic profiles
 - No overvoltage protection
 - SELV
- For product data sheet go to www.tridonic.com,
or available on request



Technical data

Input voltage, DC ^①	8 – 48 V
Efficiency ^{②③}	> 85 %
Output voltage ($U_n < 30 \text{ V}$) ^②	2.5 V bis ($U_n - 3 \text{ V}$)
Output voltage ($U_n \geq 30 \text{ V}$) ^②	5 V bis ($U_n - 3 \text{ V}$)
Max. power loss	1.6 W
Output current	700 +/- 10% mA
Ambient temperature t_a	-25 ... +50 °C
Max. casing temperature	85 °C
Weight	0.005 kg
Dimensions LxWxH	55 x 11 x 7 mm

Ordering data

Type ^①	Article number
LED C700 12-48VDC 32VA dim	86458945

Packaging: 50 pieces/carton

^① Output voltage depends on supply voltage and the number of connected TALEX modules ($U_n - 3 \text{ V}$).

^② A heat sink must be used for 24 V and higher (e.g. Z201-2).

^③ Efficiency depends on the load on TALEXcontrol LED C350. An efficiency of up to 95 % is possible.



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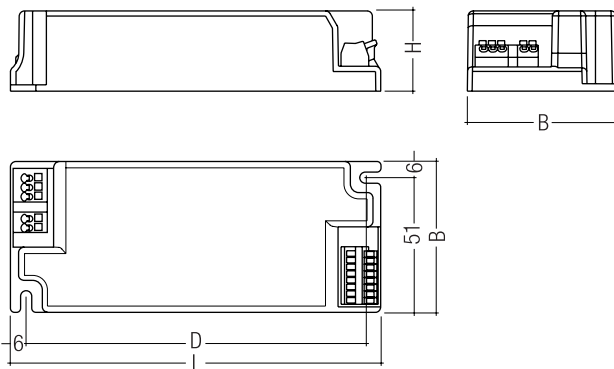
TALEXconverter 0030 K500 one4all
Constant current

Product description

- one4all converter for 500 mA output current
 - Dimming curve adapted to the sensitivity of the eye
 - Noise-free precise control via DSI signal, switchDIM or DALI
 - Powerless switching via a digital interface (no need for switching via mains)
 - Fault reporting and programmable operating parameters in DALI and DSI mode
 - Thermal shutdown with temperature sensor (NTC)
 - Short-circuit-proof fan output
 - 2 output channels with 1 address
 - Short-circuit shutdown
 - No-load detection
 - Intelligent Temperature Guard (protection against thermal damage)
 - switchDIM-MEMORY and corridorFUNCTION
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Rated supply voltage	220 – 240 V
Rated current (at 230 V 50 Hz)	0.16 A
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 85 %
λ	0.95
PWM frequency	480 Hz
Output power	2 x 15 W
Max. output voltage	30 V
Input, temperature sensor	33 kOhm
Output voltage (DC) active cooling	12 V
Max. output current, active cooling	250 mA
Dimming	DSI, DALI, switchDIM – single switch
Ambient temperature t_a	-25 ... +45 °C
Weight	0.17 kg
Dimensions LxWxH	141.3 x 57.5 x 30.5 mm
Hole spacing D	128.8 mm



Ordering data

Secondary voltage DC	Secondary current	Type	Article number
7 – 30 V	500 mA	0030 K500 one4all	86458561

Packaging: 18 pieces/carton



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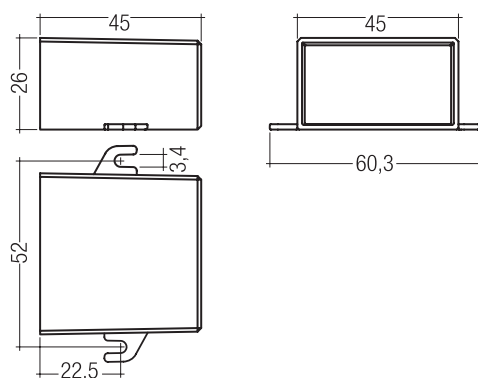


TALEXconverter 0006 K700 6 VA 700 mA
Constant current

Product description

- Constant current converter
- For TALEXeos modules
- Universal input voltage range
- Compact dimensions
- Overtemperature protection
- Overload protection by restricting output
- Connection: Cable with end sleeves (length approx. 200 mm)
- Plastic casing white, encapsulated
- SELV

→ For product data sheet go to www.tridonic.com,
or available on request



Technical data

Rated supply voltage AC	120 / 230 / 240 V
Input voltage, AC	100 – 264 V
Eingangsspannungsbereich DC	120 – 240 V
Rated current (at 230 V 50 Hz)	0.1 – 0.2 A
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 75 %
Output power	6 W
Ambient temperature t_a	-25 ... +50 °C
Weight	0.1 kg
Dimensions LxWxH	45 x 45 x 26 mm
Hole spacing D	52 mm

Ordering data

Secondary voltage DC	Secondary current	Type	Article number
8 V	0.7 A	0006 K700	24139071

Packaging: 20 pieces/carton



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TALEXconverter 0010 K700 10 VA 700 mA
Constant current

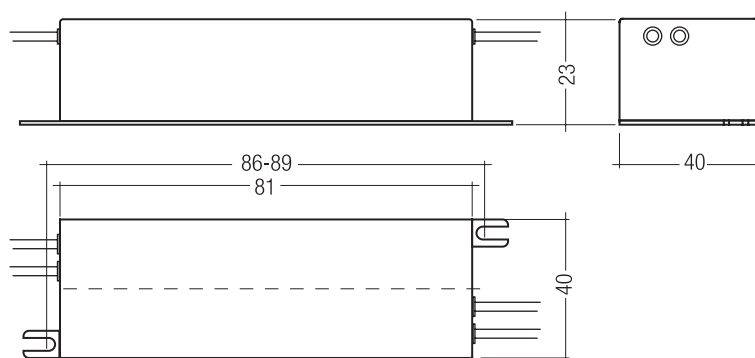
Product description

- Constant current converter
- For TALEXeos modules
- Universal input voltage range
- Compact dimensions
- Overtemperature protection
- Overload protection by restricting output
- Connection: Cable with end sleeves (length approx. 500 mm)
- Metal casing white, encapsulated
- SELV

→ For product data sheet go to www.tridonic.com,
or available on request

Technical data

Rated supply voltage AC	120 / 230 / 240 V
Input voltage, AC	100 – 264 V
Eingangsspannungsbereich DC	120 – 240 V
Rated current (at 230 V 50 Hz)	0.12 – 0.25 A
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 75 %
Output power	10.6 W
Ambient temperature ta	-25 ... +50 °C
Weight	0.09 kg
Dimensions LxWxH	87 x 35 x 28 mm
Hole spacing D	93 mm



Ordering data

Secondary voltage DC	Secondary current	Type	Article number
15.2 V	0.7 A	0010 K700	24139072

Packaging: 20 pieces/carton



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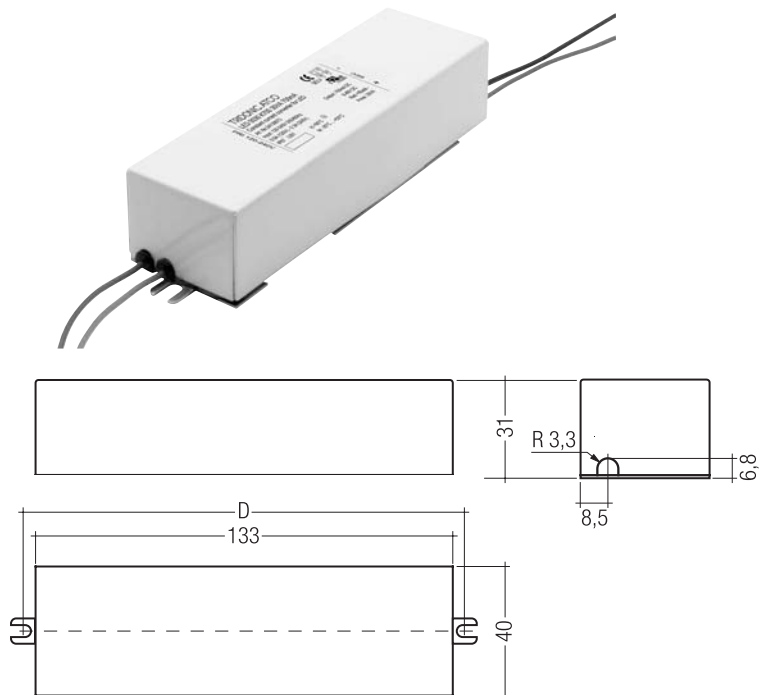
TALEXconverter 0030 K700 30 VA 700 mA
Constant current

Product description

- Constant current converter
 - For TALEXeos modules
 - Universal input voltage range
 - Overtemperature protection
 - Overload protection by restricting output
 - Connection: Cable with end sleeves (length approx. 500 mm)
 - Metal casing white, encapsulated
 - SELV
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Rated supply voltage AC	120 / 230 / 240 V
Input voltage, AC	100 – 264 V
Eingangsspannungsbereich DC	120 – 240 V
Rated current (at 230 V 50 Hz)	0.2 – 0.5 A
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 75 %
Output power	30 W
Ambient temperature t_a	-25 ... +50 °C
Weight	0.3 kg
Dimensions LxWxH	133 x 40 x 31 mm
Hole spacing D	142 mm



Ordering data

Secondary voltage DC	Secondary current	Type	Article number
8 – 48 V	0.7 A	0030 K700	24139073

Packaging: 20 pieces/carton



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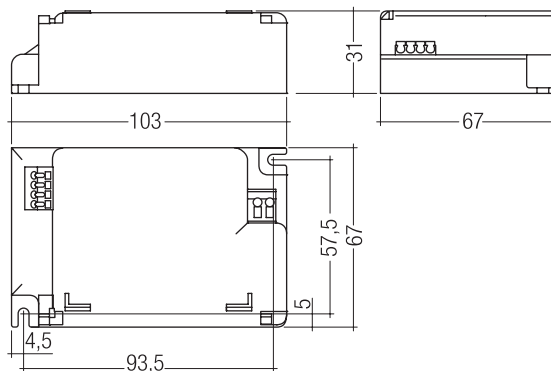


TALEXconverter 0018 K350 DALI RGB
Constant current

Product description

- Constant current converter
- 3-channel DALI dimming converter
- For 350 mA LED modules
- Dimming range 0.1 to 100 %
- Precise load balancing per output channel
- With integrated sequencer for standalone operation (factory default: activated)
- Compact dimensions
- Overtemperature protection
- Short-circuit protection with automatic restart
- DC supply possible
- DALI control input
- 3 addressable output channels
- Screw terminal
- 6-pole ribbon cable terminal on secondary side
- Rapid installation of cable clamp and terminal cover, no tool required
- Cross-section of connecting cable: 2.5 mm²
- Connecting cable, supply side: H03VV-F, H05VV-F
- PWM signal output: 24 V DC

→ For product data sheet go to www.tridonic.com,
or available on request



Technical data

Rated supply voltage AC	230 V
Input voltage, AC	198 – 254 V
Eingangsspannungsbereich DC	200 – 240 (160) V ^①
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 82 %
PWM frequency	120 Hz
Output power	18 W
Max. cable length	20 m
Dimming	DALI
Ambient temperature t _a	-20 ... +45 °C
Weight	0.15 kg
Dimensions LxWxH	103 x 67 x 31 mm
Hole spacing D	91.5 – 95.5 mm

Ordering data

Secondary current	Type	Article number
350 mA	0018 K350	86458276

Packaging: 20 pieces/carton

^① After power up with higher voltage, the device will work with a reduced voltage as specified above.



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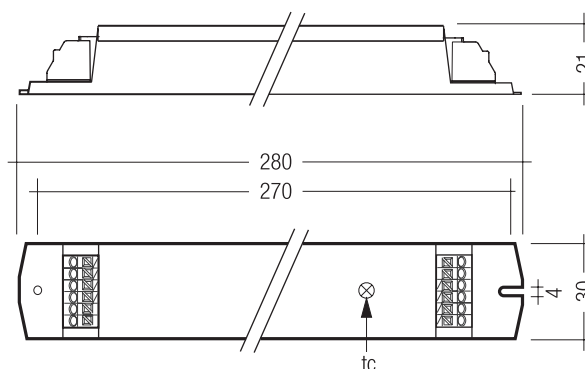


TALEXconverter 0060 K350 one4all Ip
Constant current

Product description

- Low-profile cross-section (21 x 30 mm)
- Plug-in terminals for simple connection
- 1-channel one4all converter for 350 mA TALEXeos modules
- Connection (white/blue/green) for up to 50 TALEXeos modules, (red/amber) up to 65 TALEXeos modules
- Dimming curve adapted to the sensitivity of the eye
- Noise-free precise control via DSI signal, switchDIM or DALI
- Powerless switching via a digital interface (no need for switching via mains)
- Fault reporting and programmable operating parameters in DALI and DSI mode
- 1 addressable output channel
- 350 mA PWM output signal
- Short-circuit shutdown
- No-load detection
- Intelligent Temperature Guard (protection against thermal damage)
- Connecting cable, cable cross-section 0.5 – 1.5 mm²
- Power input on standby < 0.5 W
- switchDIM-MEMORY and corridorFUNCTION

→ For product data sheet go to www.tridonic.com, or available on request



Ordering data

Secondary voltage DC	Secondary current	Type	Article number
116 – 195 V	350 mA	0060 K350	86458566

Packaging: 25 pieces/carton

① in operation

② in non-load operation

Technical data

Rated supply voltage	220 – 240 V
Rated current (at 230 V 50 Hz)	0.3 A
Mains frequency	50 / 60 Hz
Efficiency	> 90 %
λ	0.95
PWM frequency	400 Hz
Output power	60 W
Output voltage ^①	116 – 195 V
Max. output voltage ^②	420 V
Dimming	DSI, DALI, switchDIM – single switch
Ambient temperature t_a	-25 ... +50 °C
Weight	0.216 kg
Dimensions LxWxH	280 x 30 x 21 mm
Hole spacing D	268 mm



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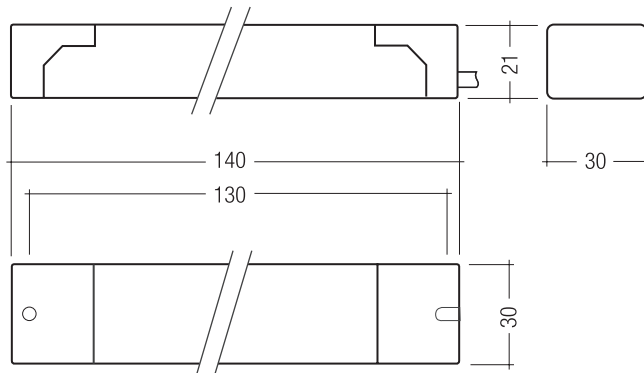
TALEXcontrol C350-2 4-channel PWM dimmer

Product description

- 4-channel PWM dimmer
 - For 350 mA LED modules
 - Dimming range 1 to 100 %
 - Suitable for combining with LED C002, LED K210 and LED K211 controllers
 - With integrated cable clamp and terminal cover
 - High input voltage range
 - Compact dimensions
 - Precise load balancing per output channel
 - Universal PWM control inputs
 - 4 control inputs
 - 350 mA PWM output signal
 - Connecting cable, supply side: H03VV-F, H05VV-F
- For product data sheet go to www.tridonic.com, or available on request

Technical data

Input voltage, DC	24 – 48 V (SELV) ^②
Max. supply current	1.5 A
Number of control inputs	4 x PWM
Input frequency	120 – 250 Hz
Control input, PWM voltage	18 – 24 V
Control input, max. signal level LOW	3 V
Control input, min. signal level HIGH	13 V
Control input, max. power draw at 24 V	2.4 mA
Number of output channels	4 (e.g. RGBA)
Output voltage ^①	3 – 43 V
Output voltage at 24 V	3 – 19 V (SELV) ^②
Output voltage at 45 V	25 – 40 V (SELV) ^②
Output voltage at 48 V	28 – 43 V (SELV) ^②
Output frequency	120 – 250 Hz
Output, dimming range	1 – 100 %
Output current	0.35 / channel A
Max. cable length (converter – LED module)	20 m
Ambient temperature t_a	-20 ... +45 °C
Max. casing temperature	70 °C
Weight	0.15 kg



Ordering data

Type	Article number
C350-2 4-channel PWM dimmer	86458693

Packaging: 10 pieces/carton

^① Depends on supply voltage U_{in} and number of TALEXmodule ($U_{LED\ max} = U_{in} - 5\ V$).

^② SELV to be provided by the supply unit, e.g. TALEXconverter K211.



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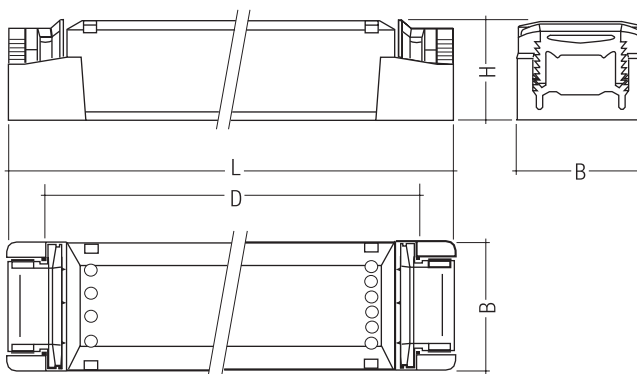


TALEXcontrol C001

PWM dimmer

Product description

- 3-channel PWM dimmer
 - For RGB colour control of LED modules
 - For 12 V or 24 V LED modules
 - Suitable for 1...10 V, potentiometer or PWM control
 - Ideal for controlling LED objects with relatively high system output (max. 2 A / channel)
 - With integrated cable clamp and terminal cover
 - Inputs electrically insulated from the supply voltage and output section
 - Reverse polarity protection
 - Short-circuit and overcurrent protection for output channels
 - Automatic shutdown on overheating
 - 6-pole screw terminal on the primary side
 - 4-pole screw terminal on the secondary side
 - Rapid installation of the cable clamp, no tools required
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Input voltage, DC ^①	12 – 24 V (SELV)
Max. supply current	6 A
Number of control inputs	3 x 1...10 V, potentiometer or PWM electrically isolated
Control input analogue	1...10 V
Control input, potentiometer ^②	100 kOhm, linear
Control input, PWM voltage	12 – 24 V
Control input, polarity reversal protection	yes, reversible
Number of output channels	3 x PWM (RGB), 350 Hz
Output signal	PWM, 350 Hz
Output voltage	12 – 24 V (SELV) ^①
Output current	max. 2 / channel A
Output, overcurrent protection	yes
Output, short-circuit protection	yes, reversible
Ambient temperature t _a	-25 ... 50 °C
Max. casing temperature	70 °C
Weight	0.1 kg
Dimensions LxWxH	167 x 42 x 31 mm
Hole spacing D	143 – 148 mm

Ordering data

Type	Article number
C001 PMW-dimmer	86454974

Packaging: 10 pieces/carton

^① SELV to be provided by the supply unit, e.g. TALEXconverter K240.

^② If several channels are controlled by a potentiometer the resistance value must be divided by the number of channels to be controlled.



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TALEXcontrol C002

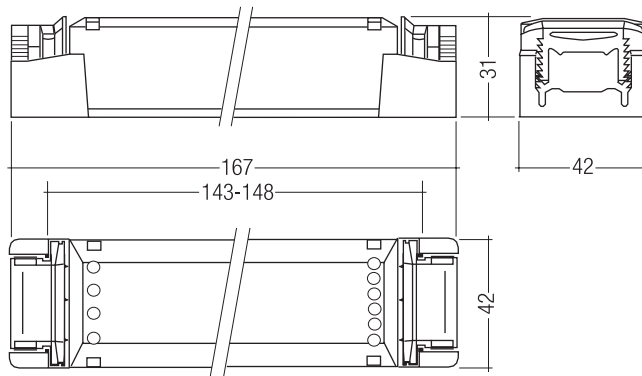
PWM sequencer

Product description

- 3-channel PWM sequencer
 - For RGB colour control of LED modules
 - For 12 V or 24 V LED modules
 - For monochrome or RGB modules
 - With integrated cable clamp and terminal cover
 - Short-circuit protection
 - Protection against rapid transients, overvoltage and polarity reversal
 - 4-pole screw terminal on the primary side
 - 6-pole screw terminal on the secondary side
 - Rapid installation of the cable clamp, no tools required
- For product data sheet go to www.tridonic.com,
or available on request

Technical data

Input voltage, DC	12 – 24 V
Max. supply current	6 A
Control input analogue	1 – 10 V
Control input, potentiometer	100 kOhm, linear
Output + pole	–
Output, - pole red	2 A
Output, - pole green	2 A
Output, - pole blue	2 A
Output voltage	12 – 24 V
Ambient temperature t_a	0 ... +50 °C
Weight	0.08 kg



Ordering data

Type	Article number
C002 PWM sequencer	86454968
Packaging: 10 pieces/carton	



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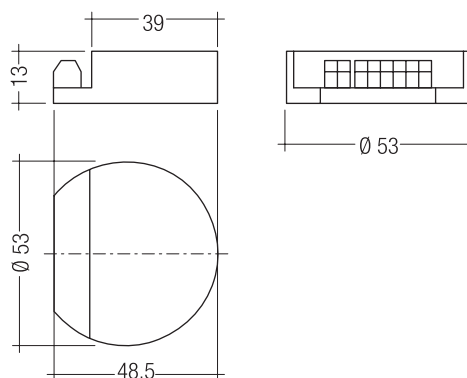
Wiring diagrams and installation examples, page 535



TALEXcontrol C003 DALI RGB DALI 3-channel

Product description

- 3-channel DALI dimming controller
 - For 24 V LED modules
 - With integrated sequencer for standalone operation (factory default: activated)
 - Compact dimensions
 - Rapid installation of cable clamp and terminal cover, no tool required
 - Short-circuit protection with automatic restart
 - Overtemperature protection
 - Screw terminal
 - DALI control input
 - 3 addressable output channels
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Input voltage, DC	8 – 24 V (SELV) ^①
Max. supply current	1.8 A
Power consumption	20 mA
Control input, interface, dimming	DALI
Control input, power draw	2 mA
Control input, polarity reversal protection	yes
Number of output channels	3 (RGB)
Output signal	PWM, 1 kHz
Output voltage	8 – 24 V (SELV) ^①
Output, dimming range	0.1 – 100 %
Output current	max.0.6 / channel A
Output, overcurrent protection	yes
Output, short-circuit protection	yes, reversible
Output, overtemperature protection	yes
Ambient temperature t _a	-25 ... +55 °C
Max. casing temperature	65 °C
Weight	0.02 kg

Ordering data

Type	Article number
C003 DALI RGB Controller	86457912

Packaging: 10 pieces/carton

^① SELV to be provided by the supply unit, e.g. TALEXconverter K220.



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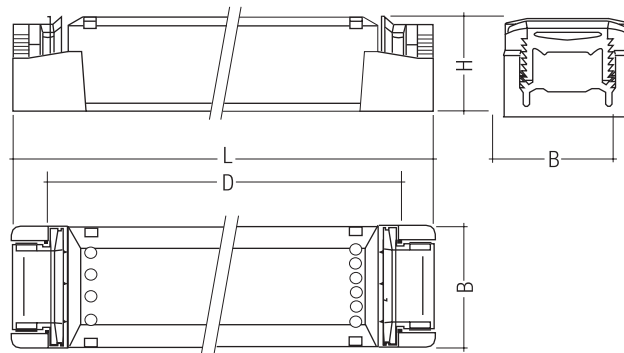


TALEXcontrol C004

PWM amplifier

Product description

- 3-channel PWM amplifier
 - For 12 V or 24 V LED modules
 - For monochrome or RGB modules
 - Suitable for combining with LED C002, LED K210 and LED K211 controllers
 - Ideal for controlling LED objects with relatively high system output (max. 2 A / channel)
 - With integrated cable clamp and terminal cover
 - Inputs electrically insulated from the supply voltage and output section
 - Reverse polarity protection
 - Short-circuit and overcurrent protection for output channels
 - Automatic shutdown on overheating
 - 6-pole screw terminal on the primary side
 - 4-pole screw terminal on the secondary side
 - Rapid installation of the cable clamp, no tools required
- For product data sheet go to www.tridonic.com, or available on request



Technical data

Input voltage, DC	12 – 24 V (SELV) ^①
Max. supply current	6 A
Number of control inputs	3 x PWM electrically isolated
Control input, PWM voltage	12 – 24 V
Control input, power draw	15 mA / channel
Control input, polarity reversal protection	yes, reversible
Number of output channels	3 x PWM (RGB)
Output voltage	12 – 24 V (SELV) ^①
Output current	max. 2 / channel A
Output, overcurrent protection	yes (2.8 A)
Output, short-circuit protection	yes, reversible
Ambient temperature t_a	-25 ... +45 °C
Max. casing temperature	70 °C
Weight	0.1 kg
Dimensions LxWxH	167 x 42 x 31 mm
Hole spacing D	143 – 148 mm

Ordering data

Type	Article number
C004 Booster (PWM)	24138760

Packaging: 10 pieces/carton

^① SELV to be provided by the supply unit, e.g. TALEXconverter K240

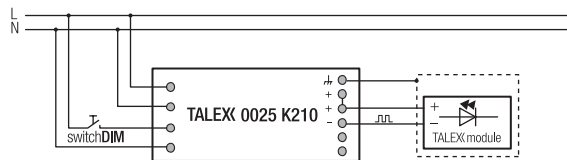
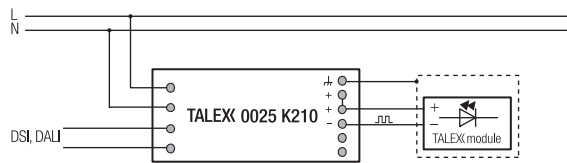


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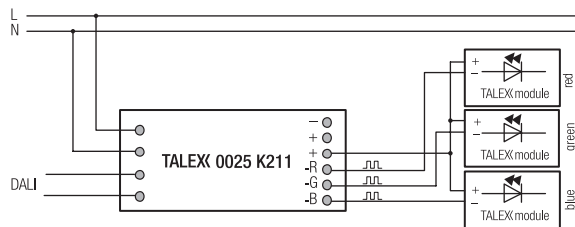
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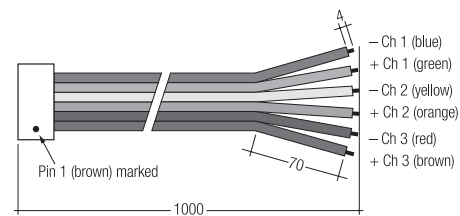
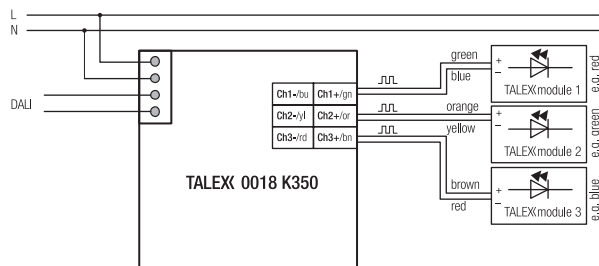
TALEX®converter 0025 K210 24V one4all



TALEX®converter 0025 K211 24V

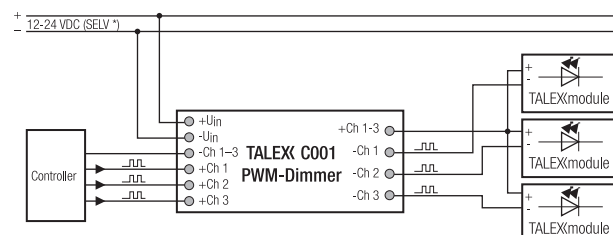
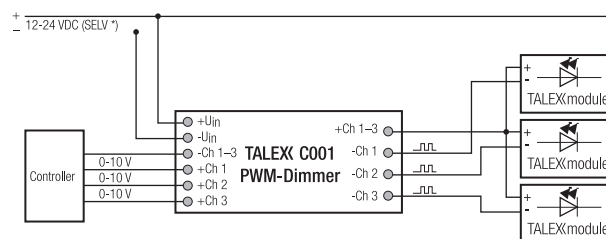
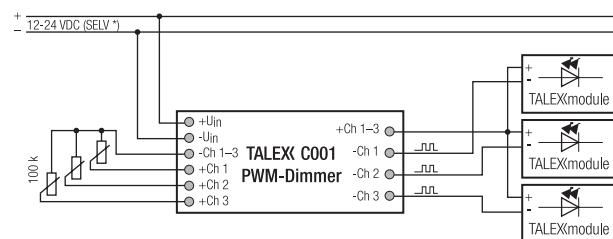


TALEX®converter 0018 K350 DALI RGB

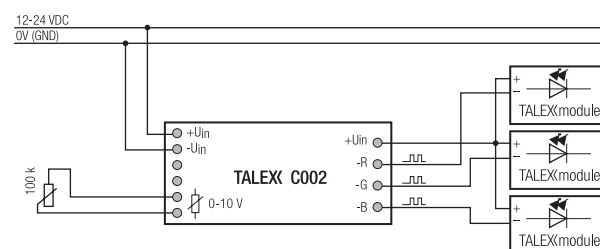


Secondary terminals:
Ribbon cable (AWG26) with 6-pole multipoint socket connector (DIN41651) included in delivery – plus signal leads can be connected together behind end terminal block.

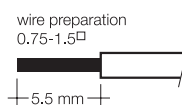
TALEXcontrol C001 PWM dimmer



TALEXcontrol C002 PWM sequencer

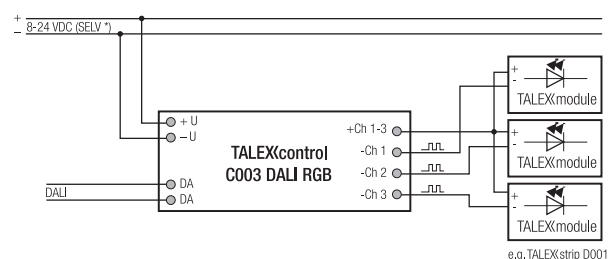


Installation instructions:

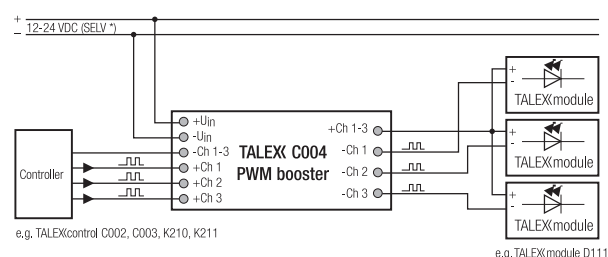


Wire	Wire cross-section
Solid	1.5 mm ²
Flexible	1.0 mm ²
Flexible with ferrule	0.75 mm ²

TALEXcontrol C003 DALI RGB



TALEXcontrol C004 PWM booster



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TRIDONIC guarantee conditions

Tridonic stands for high quality products and services. Guarantee for lighting components, management systems, LED-modules and -systems exceeds usual legal guarantee.

Tridonic offers a 5-year guarantee on all devices with a rated life of at least 50,000 hours of operation. A guarantee of 3 years is offered on devices with a rated life of less than 50,000 hours of operation.

Batteries are excluded from this guarantee.

1. Products

This guarantee applies to all electronic control gear supplied by Tridonic (electronic ballasts for fluorescent lamps, electronic ballasts for HID lamps, electronic transformers, ignitors, emergency units, converters for LED light sources, control units, magnetic ballasts for fluorescent and HID lamps) as well as LED light sources.

2. Duration of the guarantee

The guarantee period for Tridonic products is 3, 5 or 8 years.

2a. Basic guarantee

For products with a physical rated life of $\geq 50,000$ hours of operation or more, Tridonic offers a guarantee for a period of 5 years under the following conditions. To ensure that the product guarantee matches the guarantee offered by the luminaire manufacturer, the guarantee is extended by a further 6 months from the date of manufacture indicated on the product, up to a maximum of 66 months from the date of manufacture.

This applies to those products for which a rated life of $\geq 50,000$ hours of operation is indicated in the data sheets and for all TALEX LED light sources.

2b. Limited guarantee

For products with a physical rated life of less than 50,000 hours of operation, Tridonic offers a guarantee for a period of 3 years under the following conditions. To ensure that the product guarantee matches the guarantee offered by the luminaire manufacturer, the guarantee is extended by a further 6 months from the date of manufacture indicated on the product, up to a maximum of 42 months from the date of manufacture. This applies to those products for which a rated life of $< 50,000$ hours of operation is indicated in the data sheets, e.g. PC-R and VIPER.

2c. Extended guarantee for PC INDUSTRY

An extended guarantee of 8 years is offered on the PC INDUSTRY series. This guarantee makes allowance for a 6-month period for dispatch, storage and manufacture. The maximum guarantee period is therefore 102 months after production.

3. Guarantee conditions

The guarantee offered by Tridonic is valid under the following conditions:

The products from Tridonic must be used in accordance with the relevant product and application specifications. Limit values for temperatures and voltages must not be exceeded and the product not exposed to any mechanical stresses.

The guarantee for electronic operating devices applies only if the product is installed with lamps that comply with the relevant IEC specifications.

The guarantee covers solely product failures caused by material, design or production faults and failure rates that exceed the rated failure rate. The rated life and rated failure rate of a device are considered to be the values defined in the technical documentation.



Additional conditions for magnetic ballasts of fluorescent lamps

In case of extreme conditions (stuck starter) the increased temperature on the ballast will lead to a reduced lifetime, if failed components are not replaced within a short time. The guarantee conditions therefore only apply upon use in combination with safety starters or proof of immediate lamp and starter replacement.

4. Execution of the guarantee

In the event of failures exceeding the nominal failure rate, Tridonic on its sole discretion might decide to repair defective components or products, supply adequate products as replacement or reimburse products to original customers. The customers or end customers bear the costs for demounting and remounting as well as for sending in and returning products. Any other costs, e.g. replacement costs upon installation, costs caused from failures of the installation or other damage and/or consequential damage are not covered by this guarantee.

The indicated lifetime is achieved by operating lighting components according to the conditions specified by the manufacturers, to the relevant international standards and in accordance with local regulations. All electronic products having an expected failure rate require continuous monitoring, which must be documented in writing.

In view of the statistical failure rate of electronic products, installations with electronic operating devices and LED light sources require regular maintenance. The products must therefore be easy to access at all times. When installing the products, the requirements of easy maintenance must therefore be taken into consideration to keep maintenance costs down.

If simple replacement is not carried out in good time, the end customer must be informed of the additional costs that may arise in connection with standard maintenance. In designing and installing luminaires, it should be remembered that the controller, ballast and/or LED light source may have to be replaced before the luminaire comes to the end of its life.

Additional Information for LED modules

The guarantee conditions relate exclusively to mortality beyond the nominal failure rate. In view of technical advances and the changes in the luminous flux of products depending on their usage there may be differences in the photometric properties between replacement or additional LED modules and the original products.

5. Utilisation of the Guarantee

The guarantee has to be claimed immediately by returning the defective product in order to check the validity of the claim.

6. Applicable Law

See the conditions supplied with the invoice.

Energy classification table for lighting systems in accordance with EUP directive 2005/32/EC

Lamp data					Ballast efficiency (Plamp / Pinput)				
Lamp type	Nominal wattage	ILCOS code	Rated / typical wattage		A2 BAT	A2	A3	B1	B2
			50 Hz	HF					
	W		W	W					
T8	15	FD-15-E-G13-26/450	15	13.5	87.8 %	84.4 %	75.0 %	67.9 %	62.0 %
T8	18	FD-18-E-G13-26/600	18	16	87.7 %	84.2 %	76.2 %	71.3 %	65.8 %
T8	30	FD-30-E-G13-26/900	30	24	82.1 %	77.4 %	72.7 %	79.2 %	75.0 %
T8	36	FD-36-E-G13-26/1200	36	32	91.4 %	88.9 %	84.2 %	83.4 %	79.5 %
T8	38	FD-38-E-G13-26/1050	38.5	32	87.7 %	84.2 %	80.0 %	84.1 %	80.4 %
T8	58	FD-58-E-G13-26/1500	58	50	93.0 %	90.9 %	84.7 %	86.1 %	82.2 %
T8	70	FD-70-E-G13-26/1800	69.5	60	90.9 %	88.2 %	83.3 %	86.3 %	83.1 %
TC-L	18	FSD-18-E-2G11	18	16	87.7 %	84.2 %	76.2 %	71.3 %	65.8 %
TC-L	24	FSD-24-E-2G11	24	22	90.7 %	88.0 %	81.5 %	76.0 %	71.3 %
TC-L	36	FSD-36-E-2G11	36	32	91.4 %	88.9 %	84.2 %	93.4 %	79.5 %
TCF	18	FSS-18-E-2G10	18	16	87.7 %	84.2 %	76.2 %	71.3 %	65.8 %
TCF	24	FSS-24-E-2G10	24	22	90.7 %	88.0 %	81.5 %	76.0 %	71.3 %
TCF	36	FSS-36-E-2G10	36	32	91.4 %	88.9 %	84.2 %	83.4 %	79.5 %
TC-D/DE	10	FSQ-10-E-G24q=1 FSQ-10-I-G24d=1	10	9.5	89.4 %	86.4 %	73.1 %	67.9 %	59.4 %
TC-D/DE	13	FSQ-13-E-G24q=1 FSQ-13-I-G24d=1	13	12.5	91.7 %	89.3 %	78.1 %	72.6 %	65.0 %
TC-D/DE	18	FSQ-18-E-G24q=2 FSQ-18-I-G24d=2	18	16.5	89.8 %	86.8 %	78.6 %	71.3 %	65.8 %
TC-D/DE	26	FSQ-26-E-G24q=1 FSQ-26-I-G24d=1	26	24	91.4 %	88.9 %	82.8 %	77.2 %	72.6 %
TC-T/TE	13	FSM-13-E-GX24q=1 FSM-13-I-GX24d=1	13	12.5	91.7 %	89.3 %	78.1 %	72.6 %	65.0 %
TC-T/TE	18	FSM-18-E-GX24q=2 FSM-18-I-GX24d=2	18	16.5	89.8 %	86.8 %	78.6 %	71.3 %	65.8 %
TC-T/TC-TE	26	FSM-26-E-GX24q=3 FSM-26-I-GX24d=3	26.5	24	91.4 %	88.9 %	82.8 %	77.5 %	73.0 %
TC-DD/DDE	10	FSS-10-E-GR10q FSS-10-L/P/H-GR10q	10.5	9.5	86.4 %	82.6 %	70.4 %	68.8 %	60.5 %
TC-DD/DDE	16	FSS-16-E-GR10q FSS-16-I-GR10q FSS-10-L/P/H-GR10q	16	15	87.0 %	83.3 %	75.0 %	72.4 %	66.1 %
TC-DD/DDE	21	FSS-21-E-GR10q FSS-21-I-GR10q FSS-21-L/P/H-GR10q	21	19	89.4 %	86.4 %	79.2 %	73.9 %	68.8 %
TC-DD/DDE	28	FSS-28-E-GR10q FSS-28-I-GR10q FSS-28-L/P/H-GR10q	28	26	89.7 %	86.7 %	81.3 %	78.2 %	73.9 %
TC-DD/DDE	38	FSS-38-E-GR10q FSS-38-L/P/H-GR10q	38.5	36	92.3 %	90.0 %	85.7 %	84.1 %	80.4 %
TC	5	FSD-5-I-G23 FSD-5-E-2G7	5.4	5	72.7 %	66.7 %	58.8 %	49.3 %	41.4 %
TC	7	FSD-7-I-G23 FSD-7-E-2G7	7.1	6.5	77.6 %	72.2 %	65.0 %	55.7 %	47.8 %
TC	9	FSD-9-I-G23 FSD-9-E-2G7	8.7	8	78.0 %	72.7 %	66.7 %	60.3 %	52.6 %
TC	11	FSD-11-I-G23 FSD-11-E-2G7	11.8	11	83.0 %	78.6 %	73.3 %	66.7 %	59.6 %
T5	4	FD-4-E-G5-16/150	4.5	3.6	64.9 %	58.1 %	50.0 %	45.0 %	37.2 %
T5	6	FD-6-E-G5-16/225	6	5.4	71.3 %	65.1 %	58.1 %	51.8 %	43.8 %

Lamp data					Ballast efficiency (Plamp / Pinput)				
Lamp type	Nominal wattage	ILCOS code	Rated / typical wattage		A2 BAT	A2	A3	B1	B2
			50 Hz	HF					
	W		W	W					
T5	8	FD-8-E-G5-16/300	7.1	7.5	69.9 %	63.6 %	58.6 %	48.9 %	42.7 %
T5	13	FD-13-E-G5-16/525	13	12.8	84.2 %	80.0 %	75.3 %	72.6 %	65.0 %
T9-C	22	FSC-22-E-G10q-29/200	22	19	89.4 %	86.4 %	79.2 %	74.6 %	69.7 %
T9-C	32	FSC-32-E-G10q-29/300	32	30	88.9 %	85.7 %	81.1 %	80.0 %	76.0 %
T9-C	40	FSC-40-E-G10q-29/400	40	32	89.5 %	86.5 %	82.1 %	82.6 %	79.2 %
T2	6	FDH-6-L/P-W4.3x8.5d-7/220		5	72.7 %	66.7 %	58.8 %		
T2	8	FDH-8-L/P-W4.3x8.5d-7/320		7.8	76.5 %	70.9 %	65.0 %		
T2	11	FDH-11-L/P-W4.3x8.5d-7/420		10.8	81.8 %	77.1 %	72.0 %		
T2	13	FDH-13-L/P-W4.3x8.5d-7/520		13.3	84.7 %	80.6 %	76.0 %		
T2	21	FDH-21-L/P-W4.3x8.5d-7/		21	88.9 %	85.7 %	79.2 %		
T2	23	FDH-23-L/P-W4.3x8.5d-7/		23	89.8 %	86.8 %	80.7 %		
T5-E	14	FDH-14-G5-L/P-16/550		13.7	84.7 %	80.6 %	72.1 %		
T5-E	21	FDH-21-G5-L/P-16/850		20.7	89.3 %	86.3 %	79.6 %		
T5-E	24	FDH-24-G5-L/P-16/550		22.5	89.6 %	86.5 %	80.4 %		
T5-E	28	FDH-28-G5-L/P-16/1150		27.8	89.8 %	86.9 %	81.8 %		
T5-E	35	FDH-35-G5-L/P-16/1450		34.7	91.5 %	89.0 %	82.6 %		
T5-E	39	FDH-39-G5-L/P-16/850		38	91.0 %	88.4 %	82.6 %		
T5-E	49	FDH-49-G5-L/P-16/1450		49.3	91.6 %	89.2 %	84.6 %		
T5-E	54	FDH-54-G5-L/P-16/1150		53.8	92.0 %	89.7 %	85.4 %		
T5-E	80	FDH-80-G5-L/P-16/1150		80	93.0 %	90.9 %	87.0 %		
T5-E	95	FDH-95-G5-L/P-16/1150		95	92.7 %	90.5 %	84.1 %		
T5-E	120	FDH-120-G5-L/P-16/1450		120	92.5 %	90.2 %	84.5 %		
T5-C	22	FSCH-22-L/P-2GX13-16/225		22.3	88.1 %	84.8 %	78.8 %		
T5-C	40	FSCH-40-L/P-2GX13-16/300		39.9	91.4 %	88.9 %	83.3 %		
T5-C	55	FSCH-55-L/P-2GX13-16/300		55	92.4 %	90.2 %	84.6 %		
T5-C	60	FSCH-60-L/P-2GX13-16/375		60	93.0 %	90.9 %	85.7 %		
TC-LE	40	FSDH-40-L/P-2G11		40	91.4 %	88.9 %	83.3 %		
TC-LE	55	FSDH-55-L/P-2G11		55	92.4 %	90.2 %	84.6 %		
TC-LE	80	FSDH-80-L/P-2G11		80	93.0 %	90.9 %	87.0 %		
TC-TE	32	FSMH-32-L/P-2GX24q=3		32	91.4 %	88.9 %	82.1 %		
TC-TE	42	FSMH-42-L/P-2GX24q=4		43	93.5 %	91.5 %	86.0 %		
TC-TE	57	FSM6H-57-L/P-2GX24q=5 FSM8H-57-L/P-2GX24q=5		56	91.4 %	88.9 %	83.6 %		
TC-TE	70	FSM6H-70-L/P-2GX24q=6 FSM8H-70-L/P-2GX24q=6		70	93.0 %	90.9 %	85.4 %		
TC-TE	60	FSM6H-60-L/P-2G8=1		63	92.3 %	90.0 %	84.0 %		
TC-TE	62	FSM8H-62-L/P-2G8=2		62	92.2 %	89.9 %	83.8 %		
TC-TE	82	FSM8H-82-L/P-2G8=2		82	92.4 %	90.1 %	83.7 %		
TC-TE	85	FSM6H-85-L/P-2G8=1		87	92.8 %	90.6 %	84.5 %		
TC-TE	120	FSM6H-120-L/P-2G8=1 FSM8H-120-L/P-2G8=1		122	92.6 %	90.4 %	84.7 %		
TC-DD	55	FSSH-55-L/P-GR10q		55	92.4 %	90.2 %	84.6 %		

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Approval marks and symbols



Tridonic products comply with the requirements of 2004/108/EC and 2006/95/EC, and are entitled to bear the CE mark. EC declarations of conformity can be requested via the internet at www.tridonic.com, menu "Technical Information".



RoHS (Restriction of the use of certain Hazardous Substances in electrical and electronic equipment) summarises EU directive 2002/95/EC on the prohibition of certain substances in the manufacture and processing of electrical and electronic equipment and components.



Approval marks from national inspection authorities.



The ENEC mark (European Norms Electrical Certification) is a European mark of conformity and confirms that the device on which the symbol is shown complies with all the requirements of the ENEC scheme. Test certificates can be requested via the Internet at www.tridonic.com, menu "Technical Information".



Safety class 2 device in which protection against electric shock is not based solely on the basic insulation but in which there are additional safety features such as double or enhanced insulation. It is independent of the protection measures of the fixed installation.



Safety class 3 device in which protection against electric shock is based on the use of safety extra-low-voltage (SELV). In this device no voltage higher than the safety extra-low-voltage (SELV) is produced.



Reinforced insulation. The device is designed to be used in class 2 equipments and does not need any protection earth.



The device is suitable for direct mounting on normally flammable surfaces such as wood and wood-based materials > 2 mm thickness.



The device is suitable to be installed in or attached to furniture whose behaviour in fire corresponds to standard flammable building materials within the context of DIN 4102 Part 1. The materials can be laminated, veneered or varnished.



The device is suitable for installing on or in furniture which is made from materials with unknown flammability properties.



Pictogram for temperature-protected devices. The temperature shown is the maximum surface temperature in the event of a fault at rated ambient temperature.



Mark for an independent gear. The gear must not be mounted inside the luminaire.



Short-circuit-proof safety converter or safety transformer / non-short-circuit-proof safety converter or safety transformer.



Non-short-circuit-proof transformer / non-short-circuit-proof energy-saving transformer.



Dimmable trailing-edge phase dimmer / dimmable leading-edge and trailing-edge phase dimmer.

SELV

Safety Extra-Low-voltage



Product approved for EMC by VDE.

IP 20

Protection against contact and foreign bodies > 12 mm diameter.

IP 54

Protection against splashes from all directions.

IP 67

Protection against water penetration on temporary immersion.

The latest technical information including all mechanical and electronic details can be downloaded from the internet at www.tridonic.com, menu "Technical Information", submenu "Data sheets"

Standards

EN 50172	Requirements for emergency escape lighting systems
EN 50294	Measurement method of total input power of ballast-lamp circuits
EN 55015; CISPR 15	Radio disturbances < 30 MHz
EN 55015 : 2006 + A1 : 2007	Radio disturbances 0.15 to 300 MHz
EN 60598-1; IEC 60598-1	General requirements for luminaires
EN 60598-2-22; IEC 60598-2-22	Particular requirements in respect of luminaires for emergency lighting
EN 60921; IEC 60921	Ballasts for tubular fluorescent lamps – performance requirements
EN 60923; IEC 60923	Ballasts for discharge lamps – performance requirements
EN 60925; IEC 60925	DC supplied electronic ballasts for tubular fluorescent lamps – performance requirements
EN 60927; IEC 60927	Starting devices – performance requirements
EN 60929; IEC 60929	AC supplied electronic ballasts for tubular fluorescent lamps – performance requirements
EN 61000-3-2; IEC 61000-3-2	Harmonic current emissions
EN 61000-3-3; IEC 61000-3-3	Voltage fluctuations and flicker in low-voltage supply systems
EN 61047; IEC 61047	DC or AC supplied electronic step-down converters for filament lamps – performance requirements
EN 61347-1; IEC 61347-1	General and safety requirements for lamp control gear
EN 61347-2-1; IEC 61347-2-1	Particular requirements for starting devices
EN 61347-2-2; IEC 61347-2-2	Particular requirements for DC or AC supplied electronic step-down converters for filament lamps
EN 61347-2-3; IEC 61347-2-3	Particular requirements for AC supplied electronic ballasts for fluorescent lamps
EN 61347-2-4; IEC 61347-2-4	Particular requirements for DC supplied electronic ballasts for general lighting
EN 61347-2-7; IEC 61347-2-7	Particular requirements for DC supplied electronic ballasts for emergency lighting
EN 61347-2-8; IEC 61347-2-8	Particular requirements for ballasts for fluorescent lamps
EN 61347-2-9; IEC 61347-2-9	Particular requirements for ballasts for discharge lamps
EN 61347-2-11; IEC 61347-2-11	Particular requirements in respect of electronic modules for luminaires
EN 61347-2-13; IEC 61347-2-13	Particular requirements for electronic control gear for LED modules
EN 61547; IEC 61547	EMC immunity requirements
EN 61558; IEC 61558	Safety of power transformers
EN 62031; IEC 62031	Safety specifications for LED modules
EN 62034; IEC 62034	Automatic test system for battery-powered emergency escape lighting
EN 62384; IEC 62384	DC or AC supplied electronic control gear for LED modules – performance requirements
EN 62386; IEC 62386	Digital addressable lighting interface
EN 62471; IEC 62471	Photobiological safety of lamps and lamp systems
acc. to VDE 0108/EN 50172	Suitable for emergency lighting installations
IEC 60068-2-64 Fh	Environmental testing – test Fh: Vibration, broad-band random (digital control)
IEC 60068-2-29 Eb	Basic environmental testing procedures – test Eb: Bump
IEC 60068-2-30 Db	Basic environmental testing procedures – test Db: Damp heat, cyclic (12+12-hour cycle)
UL 935	Fluorescent Lamp Ballasts
ANSI C62.41 Category A	Recommended practice on surge voltage in low-voltage AC power circuits
ANSI C82.11	ANSI C82.11 High-frequency fluorescent-lamp ballasts
	High-Frequency Fluorescent Lamp Ballasts

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22084859	PCA 1/18 TCD ECO	9006210129488	106	22088915	PC 1/57/70 TCT PRO	9006210212272	60
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22085251	PCA 2/18 EXCEL one4all	9006210135137	118	22088937	PC 2/18 TCD PRO	9006210212241	60
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9006210248462	OFBIS 250 A002W 240/50 060A133	27002369	183	9006210256924	TALEXstrip ES 10 285	89899948	354
9006210248493	OFBS 400 A002W 240/50 090A163	27002380	183	9006210256955	TALEXstrip ES 12 285	89899949	354
9006210248523	OFBS 400 A001W 230/50 090A163	27002381	183	9006210257105	TALEXeos P211-2 G	89600353	478
9006210248868	OFBIS 250 A001K 230/50 060A133	27002367	183	9006210257136	TALEXeos P211-2 R	89600351	478
9006210248950	OFBIS 250 A002K 240/50 060A133	27002368	183	9006210257167	TALEXeos P211-2 A	89600352	478
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9006210258324	ZRM 125/70 B201W	22175204	224	9006210264929	PC 2/14-28/24/39 T5 PRO-M Ip	22176185	52
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9006210259888	PC 1x54-6 T5 COMBO Ip	89899889	339	9006210265582	PC 1x14-3 T5 COMBO Ip	89899875	339
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9006210260266	PC 1x80-6 T5 COMBO Ip	89899891	339	9006210266107	PC 1x28-34 LO DD COMBO	89899955	347
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9006210260624	TALEXprofile Z22W end cap with cable entry	24139173	493	9006210266626	TALEX lens O211-2 diffusion lens 40°	24166036	479
9006210260648	TALEXprofile Z22W end cap	24139174	492	9006210266909	PC 1x38-34 HO DD COMBO	89899933	347
9006210260815	TALEXstrip ES 08 246	89899954	354	9006210266930	PC 2x26-4 TC COMBO	89899930	347
9006210261058	TALEX lens O200 – 30° frosted linear lens	24139175	499	9006210267586	Test switch EM 3	89899956	341
9006210261072	TALEX lens O200 – 60° frosted linear lens	24139176	499	9006210269023	TALEXchain P503-2 G	89600556	460
9006210261096	TALEX lens O200 – 90° frosted linear lens	24139177	499	9006210269085	TALEXchain P515-2 G	89600558	462
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9006210264080	TALEXeos P211-3 WW	89600667	480	9006210272498	OFBS 400 B024W 220-240/50 100A136	27002341	181
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9006210278278	PC 2x18-3 TC COMBO	89899982	347	9006210282497	PCA 1x36 T8 EXCEL one4all lp xtec	22176239	120
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9006210285221	PC 3/4x24-34 T5 COMBO	89899878	336	9006210339146	TALEXengine Line LE600 4P130-2 NW – 30°	89600994	474
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9006210328911	TALEXengine COOL LE1200 5P130-2 NW	89600906	504	9006210339535	TALEXengine Line LE1500 9P130-2 NW – 60°	89601007	474
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