

Expertise
Product quality
Customer focus



Product Leaflet

TALEXEngine STARK SLE



TRIDONIC
▼ enlightening your ideas



For first choice downlights and spotlights

TALEXengine STARK SLE:

The best light whatever the need

TALEXengine STARK SLE

PREMIUM



SELECT



CLASSIC



The new generation of the TALEXengine STARK SLE makes it possible for LED downlights and spotlights to be used for professional general lighting. The engine's quality and efficiency have been increased to ensure a longer service life and a 40 % increase in efficiency. More lumens per watt means that less energy is consumed and that the luminaire design can be more compact due to reduced power loss.

Based on a modular system, the LED module and LED converter can be assembled into reliable system solutions. The lighting quality of the CLASSIC and SELECT modules has been improved even further to provide reproducible white at the highest level, at a flexible mode of operation: the user may choose between High Efficiency and High Output mode – the former for energy-saving operation, the latter for high output at minimum investment. The mode is selected by the TALEXconverter chosen.

The colour temperatures available are in the standardised range of 3,000, 4,000 and 5,000 K and also include the special colours Gold (for bread and pastries) and Meat+ (for meat) as well as individually controllable and dimmable white light (Tunable White) from 2,700 K to 6,500 K.

▼ At a glance: TALEXengine STARK SLE series

- High module efficiency of up to 145 lm/W
- High system efficiency of up to 115 lm/W (hot lumen at 65 °C)
- Extensive range in a uniform design:
 - CLASSIC: Static White with colour rendering index CRI > 80,
 - SELECT: Static White with colour rendering index CRI > 90,
 - PREMIUM: Tunable White* dimmable and controllable white light along the Planckian curve, CRI > 90
- High colour consistency MacAdam 3
- Wide choice of converters: Dimming or Fixed Output in remote or built-in version, with built-in interfaces such as DALI, switchDIM and colourSWITCH
- Long service life: luminous flux up to 80 % after 50,000 hours of operation
- 5-year system guarantee

*Tunable white is based on PI-LED® technology. PI-LED® is a registered brand of Lumitech.



Typical applications

TALEXengine STARK SLE is perfect in indoor applications as a downlight for general illumination:

- Shop and presentation
- Office and education
- Art and culture
- Hotel and wellness

Components

The TALEXengine STARK SLE system comprises the following components:

- TALEXmodule STARK SLE: available in PREMIUM, SELECT or CLASSIC versions. The properties of the individual modules are given on the following pages.
- TALEXconverter: Suitable LED converters with various functions are available for operating the modules (dimmable, non dimmable, tunable white)
- TALEXaccessory CONNECT: For PREMIUM version, appropriate connecting cables are used to connect the modules to the converters. The cables are available in lengths of 0.5 m, 1 m and 2 m.
- TALEXaccessory LENS MIXING CAP: This optional accessory for the PREMIUM tunable white modules improves emission and uniformity. It can be used in particular to achieve a soft gradient with non-segmented reflectors for narrow beam angles.



Interfaces

- DALI: Integrated DALI functionality enables colours and colour temperatures to be controlled via a digital control signal.
- switchDIM: The integrated switchDIM function allows a standard momentary-action switch to be connected directly for dimming purposes.
- colourSWITCH: The integrated colourSWITCH function allows a standard momentary-action switch to be connected directly for changing the colour temperature.



One system – three versions

The TALEXengine STARK SLE system is available in the following versions:

Characteristics / Features	TALEXengine STARK SLE PREMIUM	TALEXengine STARK SLE SELECT	TALEXengine STARK SLE CLASSIC
Colour temperature*	2,700 K to 6,500 K tunable white (Controllable and dimmable colour temperatures)	4,000 K, 3,000 K, SLE FOOD in Gold (bread and pastries) and Meat+ (for meat)	5,000, 4,000 K or 3,000 K
Luminous flux (Hot Lumen at 65 °C)	2,050 lm or 1,350 lm	1,100 lm or 4,300 lm	1,300 lm or 5,300 lm
Colour rendering/colour tolerance	CRI > 90 / MacAdam 4 SDCM	CRI > 90 / MacAdam 3 SDCM	CRI > 80 / MacAdam 3 SDCM
System efficiency	61 lm/W for 1.350 lm 65 lm/W for 2.050 lm	up to 110 lm/W	up to 145 lm/W
DALI	Device Type 8	Device Type 6 for converters with dimming function	Device Type 6 for converters with dimming function
switchDIM	yes	for converters with dimming function	for converters with dimming function
colourSWITCH	yes	no	no
Power supply	220 – 240 V / 0 Hz, 50 Hz, 60 Hz	220 – 240 V / 0 Hz, 50 Hz, 60 Hz	220 – 240 V / 0 Hz, 50 Hz, 60 Hz
Ambient temperature ta	up to +50 °C	up to +50 °C	up to +50 °C
Maximum surface temperature for TALEXmodule STARK SLE	75 °C	75 °C	75 °C
Protection class: system solution	Protection class II	Protection class II	Protection class II
Guarantee	5 years	5 years	5 years

*Application-specific changes to the colour temperature are possible. The colour temperature can be fixed or can be varied on the basis of PI-LED® technology. PI-LED® is a registered brand of Lumitech. PI-LED® technology enables the perfect light colour to be set on site for the specific application. Further information on application-specific colours is available on request.



Integrated terminal for a time-saving assembly

Back of the module for thermal connection to the heat sink

Version without housing for individual integration in the light

TALEXengine STARK SLE PREMIUM

The TALEXengine STARK SLE PREMIUM system is packed with completely new functions such as tunable white. The colour temperature can be changed smoothly between 2,700 K and 6,500 K to meet the specific needs of the relevant application. The system has a dimming range between 15 and 100 %.

Type	Article number	Colour temperature	Mac Adam	Typ. luminous flux*	Power consumption
STARK-SLE-2000-PRE	89601316	2,700 K to 6,500 K tunable white	SDCM 4	2,050 lm	31.7 W
STARK-SLE-1400-PRE	89601317	2,700 K to 6,500 K tunable white	SDCM 4	1,350 lm	22.2 W

*Tolerance range for electrical data: $\pm 10\%$, tolerance range for optical data: $\pm 10\%$



Matching TALEXconverter:

TALEXmodule	Article number	TALEXconverter LCAU 2x020/0048 Art. no. 86459108	TALEXconverter LMAI 044/0500 Art. no. 86459199
STARK-SLE-2000-PRE	89601316	▼	▼
STARK-SLE-1400-PRE	89601317	▼	▼

Matching connection cable:

TALEXaccessory CONNECT: converter - remote LMU - modules

Type	Connection	Article number	Length	Colour
RJ45/RJ45 1.0m	Converter - Remote LMU	24166480	1 m	Grey
J45/RJ45 2.0m		24166481	2 m	Grey
10PIN PLUG/10 PIN PLUG 0.2m	Remote LMU - Module	24166482	0.2 m	Grey

The appropriate cap (for the 1,500 lm and 2,500 lm versions):

TALEXaccessory LENS MIXING CAP

Type	Article number
LED MIXING CAP STARK SLE 1500	88167564
LED MIXING CAP STARK SLE 2500	88167565



TALEXengine STARK SLE SELECT

The TALEXengine STARK SLE SELECT system is impressive for its high quality light with a colour rendering index of CRI > 90. TALEXconverter with or without a dimming function are available depending on the application. In particular, the newly developed special light colour Gold for bread and pastries and Meat+ for meat lighting.

Type	Article number	Colour temperature	MacAdam	CRI	Typical luminous flux*		Typical power consumption*
					Operation time		
					High Efficiency	High Output	
STARK-SLE-G2-LES19-930-SEL	89601660	3,000 K	SDCM 3	> 90	1,100 lm / 2,000 lm		11,6 W bis 24,7 W
STARK-SLE-G2-LES19-940-SEL	89601661	4,000 K	SDCM 3	> 90	1,100 lm / 2,100 lm		11,6 W bis 24,7 W
STARK-SLE-G2-LES23-930-SEL	89601663	3,000 K	SDCM 3	> 90	1,550 lm / 3,000 lm		16,5 W bis 37 W
STARK-SLE-G2-LES23-940-SEL	89601664	4,000 K	SDCM 3	> 90	1,650 lm / 3,200 lm		16,5 W bis 37 W
STARK-SLE-G2-LES26-930-SEL	89601666	3,000 K	SDCM 3	> 90	2,000 lm / 4,000 lm		23 W bis 49,5 W
STARK-SLE-G2-LES26-940-SEL	89601667	4,000 K	SDCM 3	> 90	2,300 lm / 4,300 lm		23 W bis 49,5 W

*Tolerance range for electrical data: $\pm 10\%$, tolerance range for optical data: $\pm 10\%$

TALEXengine STARK SLE FOOD



Type	Article number	Colour temperature	MacAdam	Typical luminous flux*		Typical power consumption*
				Operation time		
				High Ef- ficiency	High Output	
STARK-SLE-G2-LES23-GOLD	89601665	GOLD	SDCM 3	1,400 lm / 2,700 lm		16,5 W bis 37 W
STARK-SLE-G2-LES23-MEAT+	89601662	Meat+	SDCM 3	1,000 lm / 1,900 lm		16,5 W bis 37 W
STARK-SLE-G2-LES26-GOLD	89601668	GOLD	SDCM 3	2,000 lm / 3,700 lm		23 W bis 49,5 W
STARK-SLE-G2-LES26-MEAT+	89601678	Meat+	SDCM 3	1,400 lm / 2,600 lm		23 W bis 49,5 W

► The appropriate TALEXconverter can be found on the data sheet, available at www.tridonic.com



TALEXengine STARK SLE CLASSIC

The TALEXengine STARK SLE CLASSIC system is an attractive entry-level solution for general illumination with LEDs. TALEXconverters with or without a dimming function are available depending on the application.

Type	Article number	Colour temperature	MacAdam	CRI	Typical luminous flux*		Typical power consumption*
					Operation time		
					High Efficiency	High Output	
STARK-SLE-G2-LES19-830-CLA	89601652	3,000 K	SDCM 3	> 80	1,300 lm / 2,300 lm		11.6 W bis 24.7 W
STARK-SLE-G2-LES19-840-CLA	89601632	4,000 K	SDCM 3	> 80	1,400 lm / 2,550 lm		11.6 W bis 24.7 W
STARK-SLE-G2-LES19-750-CLA	89601633	5,000 K	SDCM 3	> 80	1,450 lm / 2,650 lm		11.6 W bis 24.7 W
STARK-SLE-G2-LES23-830-CLA	89601634	3,000 K	SDCM 3	> 80	1,800 lm / 3,500 lm		16.5 W bis 37 W
STARK-SLE-G2-LES23-840-CLA	89601635	4,000 K	SDCM 3	> 80	2,000 lm / 3,850 lm		16.5 W bis 37 W
STARK-SLE-G2-LES23-750-CLA	89601636	5,000 K	SDCM 3	> 80	2,100 lm / 4,000 lm		16.5 W bis 37 W
STARK-SLE-G2-LES26-830-CLA	89601637	3,000 K	SDCM 3	> 80	2,500 lm / 4,650 lm		23 W bis 49.5 W
STARK-SLE-G2-LES26-840-CLA	89601638	4,000 K	SDCM 3	> 80	2,800 lm / 5,100 lm		23 W bis 49.5 W
STARK-SLE-G2-LES26-750-CLA	89601639	5,000 K	SDCM 3	> 80	2,900 lm / 5,300 lm		23 W bis 49.5 W

*Tolerance range for electrical data: $\pm 10\%$, tolerance range for optical data: $\pm 10\%$

- The appropriate TALEXconverter can be found in the data sheet, available at www.tridonic.com



- All modules are also available without housing. The details can be found on the data sheet, available at www.tridonic.com
- Further technical details on these products can be found at led.tridonic.com. For information on installing the product see the technical Design-In Guide, available at www.tridonic.com.

Matching accessories

We offer you system solutions – in other words matching products from a single source. With regard to controllers, Tridonic offers a comprehensive range of DALI-compatible products. All the devices specified here support DALI Device Type 6 and therefore guarantee effective use of TALEXengine STARK SLE.

Product name	Article number
DALI M-Sensor	86458265
DALI SC	24034263
DALI MC	86458507
DALI Touchpanel	24035465
x-touchBOX	24138954
x-touchPANEL	24138990
DALI PS	24033444
DALI USB	24138923

► For more information and technical data on the entire TALEX product portfolio go to led.tridonic.com.

Product application matrix

Whether you are looking for wide-area lighting or focused accent lighting, our wide range of TALEX products will help you create an individual atmosphere and highlight specific areas exactly as you want. Our product portfolio includes individual light points, round, rectangular and strip versions. Specially matched operating equipment such as converters, amplifiers and sequencers round off the components for a perfect system solution: They guarantee ideal operation and maximum efficiency.

TALEXengine	Luminaire application							
	Spotlights	Downlights	Linear luminaires	Wide-area luminaires	Recessed floor & wall-mounted luminaires	Free-standing luminaires	Street lanterns	Decorative luminaires
TALEXengine STARK CLE		▼			▼			▼
TALEXengine STARK DLE		▼						
TALEXengine STARK DLE TWIST	▼	▼						
TALEXengine STARK SLE	▼	▼			▼	▼		▼
TALEXengine STARK LLE			▼	▼	▼	▼		
TALEXengine STARK QLE				▼	▼			
TALEXengine INDI *			▼			▼		

TALEXmodule	Luminaire application							
	Spotlights	Downlights	Linear luminaires	Wide-area luminaires	Recessed floor & wall-mounted luminaires	Free-standing luminaires	Street lanterns	Decorative luminaires
TALEXmodule RECTANGULAR	▼	▼			▼	▼	▼	
TALEXmodule FULMEN	▼	▼						
TALEXmodule STRIP								▼
TALEXmodule EOS								▼
TALEXmodule XED DECO		▼	▼	▼	▼			▼

TALEXconverter	Luminaire application							
	Spotlights	Downlights	Linear luminaires	Wide-area luminaires	Recessed floor & wall-mounted luminaires	Free-standing luminaires	Street lanterns	Decorative luminaires
TALEXconverter REMOTE dimmable (LCA)		▼	▼	▼				▼
TALEXconverter IN-BUILT dimmable (LCA)	▼		▼	▼	▼	▼	▼	▼
TALEXconverter REMOTE non-dimmable (LC)		▼	▼	▼				▼
TALEXconverter IN-BUILT non-dimmable (LC)	▼		▼	▼	▼	▼	▼	▼

* available in autumn 2012

Tridonic partners

We source heat sinks with active and passive cooling, reflector solutions suitable for TALEX module STARK SLE and heat-conducting foil and pastes from reliable partners.

For detailed information on our partners see page 43 of the technical Design-In Guide. The Guide can be downloaded at www.tridonic.com.

Support and advice from a single source

We will help you to create lighting solutions that are unbeatable in terms of economy and functionality, according to our slogan: We devote all our energy to your light.

As an international company, Tridonic is represented worldwide by 30 branch offices and partners in 73 countries. The easiest way to find your regional contact is to check our website at www.tridonic.com.



Exactly what you need for your LED product solutions Systems, modules, components and more

- High-intensity lighting effect thanks to exceptional white light quality
- Reliability thanks to long-lasting colour precision
- Flexibility thanks to varied product portfolio
- Advice and support provided by your Tridonic service team as usual

Make sure you have all your LEDs under perfect control:
led.tridonic.com