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Product Leaflet

TALEX Engine 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 TALEXengine STARK SLE product series with its versions CLASSIC, SELECT or PREMIUM is a complete one-stop downlight and spotlight system solution, specially designed for indoor applications. This system solution consists of LED module, LED converter and ready-made cables for connecting the module and the converter. With just one product type you can cover a very wide range of lighting tasks, and in every case with impressive sustainability because the electrical, mechanical, optical and thermal standards of the luminaire industry have all been taken into consideration in developing the products. In addition, TALEXmodule STARK SLE has a very low colour tolerance up to MacAdam 3. You can find the right functionality to meet any requirements – from the non-dimmable basic version in colour temperatures of 3,000 K and 4,000 K to fully controllable and dimmable white light (tunable white*) in the colour temperature range from 2,700 K to 6,500 K.

▼ At a glance: TALEXengine STARK SLE series

- Excellent colour rendering (CRI > 90)
- High system efficiency up to 80 lm/W
- Small colour tolerance up to MacAdam 3 SDCM
- Controllable and dimmable white light (tunable white, 2,700 K to 6,500 K)
- Configuration of individual light colours
- Sustainable lumen packages and equal luminous flux at different colour temperatures for precise lighting planning (1,500 lm, 2,500 lm and 4,000 lm)
- Identical power consumption for 3,000 K and 4,000 K for simple thermal design of the luminaire
- Integrated interfaces such as DALI, switchDIM, colourSWITCH
- Life of up to 50,000 hours

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



Typical applications

TALEXengine STARK DLE 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 (dimnable, non dimmable, tunable white)
- ___ TALEXaccessory CONNECT: 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 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 or 3,000 K	4,000 K or 3,000 K
Luminous flux	2,500 lm or 1,350 lm	4,000 lm, 2,500 lm or 1,500 lm	4,000 lm, 2,500 lm or 1,500 lm
Colour rendering/colour tolerance	CRI > 90 / MacAdam 3 SDCM	CRI > 90 / MacAdam 3 SDCM	CRI > 90 / MacAdam 4 SDCM
System efficiency	up to 72 lm/W	up to 80 lm/W	up to 80 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	220–240V/0Hz, 50Hz, 60Hz	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
Protection class: TALEXmodule STARK SLE	Protection class III	Protection class III	Protection class III
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.



Simple Plug'n Play installation

Back of the module for thermal connection to the heat sink

Mounting device for different types of reflector

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.

Type	Article number	Colour temperature	Mac Adam	Typ. luminous flux*	Power consumption typ., incl. LMU*
STARK-SLE-2500-PRE	89601316	2,700 K to 6,500 K tunable white	SDCM 3	2,500lm	30.5W
STARK-SLE-1500-PRE	89601317	2,700 K to 6,500 K tunable white	SDCM 3	1,350lm	16.5W

*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-2500-PRE	89601316	▼	▼
STARK-SLE-1500-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	0.2m	Grey

The appropriate cap (for the 1,500 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

► Further technical details for 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.

TALEXengine STARK SLE SELECT

The TALEXengine STARK SLE SELECT system is impressive for its high quality light. TALEXconverter with or without a dimming function are available depending on the application.

Type	Article number	Colour temperature	Mac Adam	Typ. luminous flux*	Power consumption typ.*
STARK-SLE-4000-940-SEL	89601319	4,000K	SDCM 3	4,000 lm	48.7 W
STARK-SLE-4000-930-SEL	89601318	3,000K	SDCM 3	4,000 lm	48.7 W
STARK-SLE-2500-940-SEL	89601324	4,000K	SDCM 3	2,500 lm	30.9 W
STARK-SLE-2500-930-SEL	89601323	3,000K	SDCM 3	2,500 lm	30.9 W
STARK-SLE-1500-940-SEL	89601329	4,000K	SDCM 3	1,500 lm	18.3 W
STARK-SLE-1500-930-SEL	89601328	3,000K	SDCM 3	1,500 lm	18.3 W

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

Matching TALEXconverter:

TALEX(module)	Article number	TALEXconverter IN-BUILT with dimming function		TALEXconverter IN-BUILT without dimming function	
		LCAI 055/1400 one4all Art. no. 86459246*	LCAI 050/1050 one4all Art. no. 86459245*	LCI 055/1400 Art. no. 86459217	LCI 050/1050 Art. no. 86459216
STARK-SLE-4000-940-SEL	89601319	▼		▼	
STARK-SLE-4000-930-SEL	89601318	▼		▼	
STARK-DLE-2500-940-SEL	89601324		▼		▼
STARK-DLE-2500-930-SEL	89601323		▼		▼
STARK-DLE-1500-940-SEL	89601329		▼		▼
STARK-DLE-1500-930-SEL	89601328		▼		▼

*available in autumn of 2012

Matching connection cables

TALEXaccessory CONNECT 10PIN PLUG/4PIN CRIMP:

Type	Article number	Length	Colour
10PIN PLUG/4PIN CRIMP 0.5m	24166485	0.5 m	Grey
10PIN PLUG/4PIN CRIMP 1.0m	24176077	1 m	Grey
10PIN PLUG/4PIN CRIMP 2.0m	24176078	2 m	Grey

The appropriate cap (for the 1,500 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

► Further technical details on this product can be found at led.tridonic.com. For information on installing the product see the technical Design-In Guide, available at www.tridonic.com.

TALEXengine STARK DLE CLASSIC

The TALEXengine STARK DLE 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	Mac Adam	Typ. luminous flux*	Power consumption typ.*
STARK-SLE-4000-940-CLA	89601334	4,000K	SDCM 4	3,000lm	48.7W
STARK-SLE-4000-930-CLA	89601333	3,000K	SDCM 4	3,000lm	48.7W
STARK-SLE-2500-940-CLA	89601339	4,000K	SDCM 4	2,000lm	30.9W
STARK-SLE-2500-930-CLA	89601338	3,000K	SDCM 4	2,000lm	30.9W
STARK-SLE-1500-940-CLA	89601344	4,000K	SDCM 4	1,100lm	18.3W
STARK-SLE-1500-930-CLA	89601343	3,000K	SDCM 4	1,100lm	18.3W

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

Matching TALEXconverter:

TALEXmodule	Article number	TALEXconverter IN-BUILT with dimming function		TALEXconverter IN-BUILT without dimming function	
		LCAI 055/1400 one4all Art. no. 86459245*	LCAI 050/1050 one4all Art. no. 86459245*	LCI 055/1400 Art. no. 86459217	LCI 050/1050 Art. no. 86459216
STARK-SLE-4000-930-CLA	89601334	▼		▼	
STARK-SLE-4000-940-CLA	89601333	▼		▼	
STARK-SLE-2500-930-CLA	89601339		▼		▼
STARK-SLE-2500-940-CLA	89601338		▼		▼
STARK-SLE-1500-930-CLA	89601344		▼		▼
STARK-SLE-1500-940-CLA	89601343		▼		▼

*available in autumn of 2012

Matching connection cables

TALEXaccessory CONNECT 10PIN PLUG/4PIN CRIMP:

Type	Article number	Length	Colour
10PIN PLUG/4PIN CRIMP 0.5m	24166485	0.5 m	Grey
10PIN PLUG/4PIN CRIMP 1.0m	24166483	1 m	Grey
10PIN PLUG/4PIN CRIMP 2.0m	24166484	2 m	Grey

The appropriate cap (for the 1,500 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

► Further technical details on this product 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 DLE		▼						
TALEXengine STARK DLE TWIST	▼	▼						
TALEXengine STARK SLE	▼	▼			▼	▼		▼
TALEXengine STARK LLE			▼	▼	▼	▼		
TALEXengine STARK QLE				▼	▼			
TALEXengine RLE **					▼		▼	
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 SPOT	▼	▼			▼	▼	▼	▼
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

** available in the 2nd semester of 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**