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Product Leaflet

TALEXEngine STARK DLE



Impressive downlights

TALEXengine STARK DLE guarantees high-quality light

TALEXengine STARK DLE



PREMIUM



SELECT and CLASSIC



The TALEXengine STARK DLE product series is a complete one-stop downlight system solution. The electrical, thermal, mechanical and optical standards of the luminaire industry are all taken into consideration in developing the products. The system consists of three components: LED module, LED converter and ready-made cables for connecting the module and the converter. With just one product type in the CLASSIC, SELECT or PREMIUM version you can cover a very wide range of lighting tasks. This versatile portfolio offers the right solution for any application. 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 DLE series

- __ Excellent colour rendering (CRI > 90)
- __ High reproducible colour quality up to MacAdam 3
- __ Controllable and dimmable white light (tunable white, 2,700 K to 6,500 K)
- __ Configuration of individual light colours
- __ Sustainable lumen packages for precise lighting planning (1,100 lm, 2,000 lm and 3,000 lm)
- __ High system efficiency of up to 65 lm/W
- __ White diffuser for a neutral and uniform appearance
- __ 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 DLE system comprises the following components:

- ___ TALEXmodule STARK DLE: 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.
- ___ TALEXaccessories CONNECT: Appropriate connecting cables are used to connect the modules to the converters. The cables are available in lengths of 1 m and 2 m.



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 DLE system is available in the following versions:

Characteristics / Features	TALEXengine STARK DLE PREMIUM	TALEXengine STARK DLE SELECT	TALEXengine STARK DLE 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	2,000 lm or 1,100 lm	3,000 lm, 2,000 lm or 1,100 lm	3,000 lm, 2,000 lm or 1,100 lm
Colour rendering/colour tolerance	CRI > 90 / MacAdam 3 SDCM	CRI > 90 / MacAdam 3 SDCM	CRI > 90 / MacAdam 4 SDCM
System efficiency	65 lm/W	65 lm/W	65 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 /0Hz, 50Hz, 60Hz	220 – 240 V / 0Hz, 50Hz, 60Hz
Ambient temperature t_a	up to +50 °C	up to +50 °C	up to +50 °C
Maximum surface temperature for TALEXmodule STARK DLE	65 °C	65 °C	65 °C
Protection class: system solution	Protection class II	Protection class II	Protection class II
Protection class: TALEXmodule STARK DLE	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

The white diffuser provides a uniform and neutral appearance.

Mounting device for different types of reflector

TALEXengine STARK DLE PREMIUM

The TALEXengine STARK DLE 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	MacAdam	Typ. luminous flux*	Power consumption typ.*
STARK-DLE-2000-PRE	89601165	2,700 K to 6,500 K tunable white	SDCM 3	2,000lm	27.8W
STARK-DLE-1100-PRE	89601166	2,700 K to 6,500 K tunable white	SDCM 3	1,100lm	15.3W

*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
STARK-DLE-2000-PRE	89601165	▼
STARK-DLE-1100-PRE	89601166	▼

TALEXaccessory CONNECT – RJ45 U:

Type	Article number	Length	Colour
RJ45/RJ45 1.0m	24166480	1 m	Grey
RJ45/RJ45 2.0m	24166481	2 m	Grey

► 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 DLE SELECT

The TALEXengine STARK DLE 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	MacAdam	Typ. luminous flux*	Power consumption typ.*
STARK-DLE-3000-940-SEL	89601168	4,000K	SDCM 3	3,000lm	36.5W
STARK-DLE-3000-930-SEL	89601167	3,000K	SDCM 3	3,000lm	36.5W
STARK-DLE-2000-940-SEL	89601292	4,000K	SDCM 3	2,000lm	27.4W
STARK-DLE-2000-930-SEL	89601291	3,000K	SDCM 3	2,000lm	27.4W
STARK-DLE-1100-940-SEL	89601297	4,000K	SDCM 3	1,100lm	14.8W
STARK-DLE-1100-930-SEL	89601296	3,000K	SDCM 3	1,100lm	14.8W

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

Matching TALEXconverter:

TALEX(module)	Article number	TALEXconverter REMOTE with dimming function		TALEXconverter REMOTE without dimming function	
		LCAI 055/1400 one4al Art. no. 86459248*	LCAI 050/1050 one4al Art. no. 86459247*	LCI 055/1400 Art. no. 86459219	LCI 050/1050 Art. no. 86459218
STARK-DLE-3000-930-SEL	89601168	▼		▼	
STARK-DLE-3000-940-SEL	89601167	▼		▼	
STARK-DLE-2000-930-SEL	89601292		▼		▼
STARK-DLE-2000-940-SEL	89601291		▼		▼
STARK-DLE-1100-930-SEL	89601297		▼		▼
STARK-DLE-1100-940-SEL	89601296		▼		▼

*available in autumn of 2012

TALEXaccessory CONNECT 4PIN PLUG/4PIN CRIMP:

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

► 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 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	MacAdam	Typ. luminous flux*	Power consumption typ.*
STARK-DLE-3000-940-CLA	89601302	4,000K	SDCM 4	3,000lm	36.5W
STARK-DLE-3000-930-CLA	89601301	3,000K	SDCM 4	3,000lm	36.5W
STARK-DLE-2000-940-CLA	89601307	4,000K	SDCM 4	2,000lm	27.4W
STARK-DLE-2000-930-CLA	89601306	3,000K	SDCM 4	2,000lm	27.4W
STARK-DLE-1100-940-CLA	89601312	4,000K	SDCM 4	1,100lm	14.8W
STARK-DLE-1100-930-CLA	89601311	3,000K	SDCM 4	1,100lm	14.8W

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

Matching TALEXconverter:

TALEXmodule	Article number	TALEXconverter REMOTE with dimming function		TALEXconverter REMOTE without dimming function	
		LCAI 055/1400 one4all Art. no. 86459248*	LCAI 050/1050 one4all Art. no. 86459247*	LCI 055/1400 Art. no. 86459219	LCI 050/1050 Art. no. 86459218
STARK-DLE-3000-930-CLA	89601302	▼		▼	
STARK-DLE-3000-940-CLA	89601301	▼		▼	
STARK-DLE-2000-930-CLA	89601307		▼		▼
STARK-DLE-2000-940-CLA	89601306		▼		▼
STARK-DLE-1100-930-CLA	89601312		▼		▼
STARK-DLE-1100-940-CLA	89601311		▼		▼

*available in autumn of 2012

TALEXaccessory CONNECT 4 PIN PLUG/4PIN CRIMP:

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

► 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.

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 DLE.

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 DLE 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