

Lighting solutions for industrial applications



Spotlights



Downlights



Linear



Wide Area



Floor | Wall



Freestanding



Decorative



High Bay

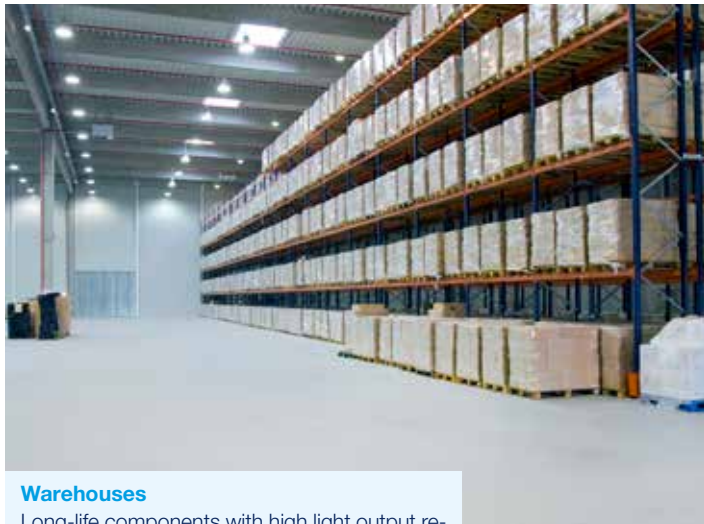
Lighting solutions for industrial applications

Reliable light for every need

Industrial environments place special requirements on lighting systems. Long operating times and critical atmospheres place heavy demands on any lighting system, and maintenance is often associated with major effort and high costs.

For industrial applications, Tridonic combines the benefits of the indoor segment with those of outdoor products. This results in LED solutions with high efficiency, low standby losses and increased dielectric strength for extended temperature ranges. The Tridonic range of products are perfect replacements for fluorescent and HID light sources as they meet all the requirements for industrial lighting.

Typical applications



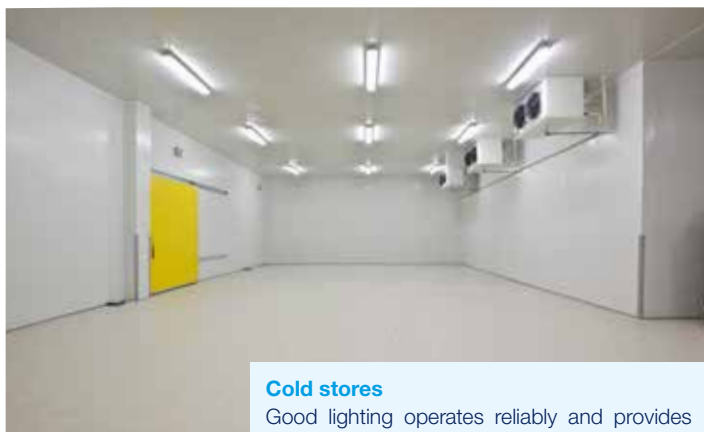
Warehouses

Long-life components with high light output reduce the number of luminaires needed and the maintenance costs in high-ceiling rooms.



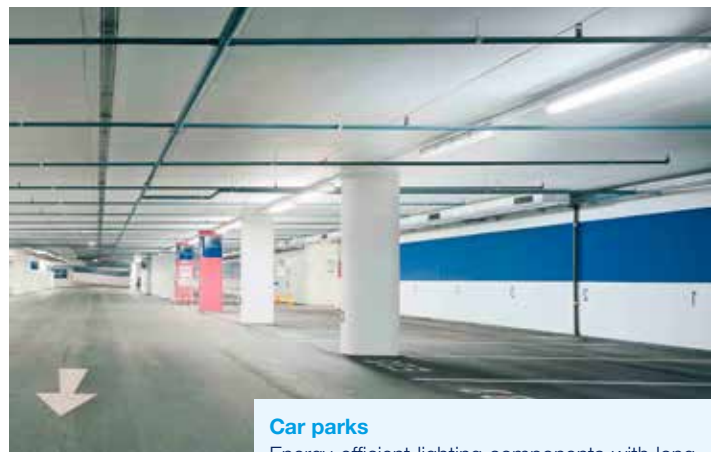
Production facilities

High quality of light and high luminous flux increase productivity and also help improve safety and reduce errors.



Cold stores

Good lighting operates reliably and provides full luminous intensity within only a short time despite low ambient temperatures.



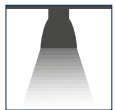
Car parks

Energy-efficient lighting components with long life and low maintenance costs are ideal for long-term operation.

Your benefits

- ▼ Energy and cost savings thanks to
 - ___ extended temperature ranges
 - ___ integrated dimming function
 - ___ very low standby power consumption
- ▼ Ideal colour rendering, high module efficiency, adapted illuminance levels and light colours
 - ___ thanks to perfectly matched converter and module systems
- ▼ The integrated constant light function ensures constant luminous intensity throughout the life of the system
- ▼ Extreme reliability and reduced maintenance thanks to
 - ___ long life-time
 - ___ increased dielectric strength (Surge/Burst)
 - ___ constant luminous flux throughout the life of the system
- ▼ Versatile applications thanks to
 - ___ connections to sensors and light management systems
 - ___ integration of the components in existing emergency lighting systems

Tridonic system solutions for industry



▼ Typical system solution for warehouses



▼ Typical system solution for production facilities

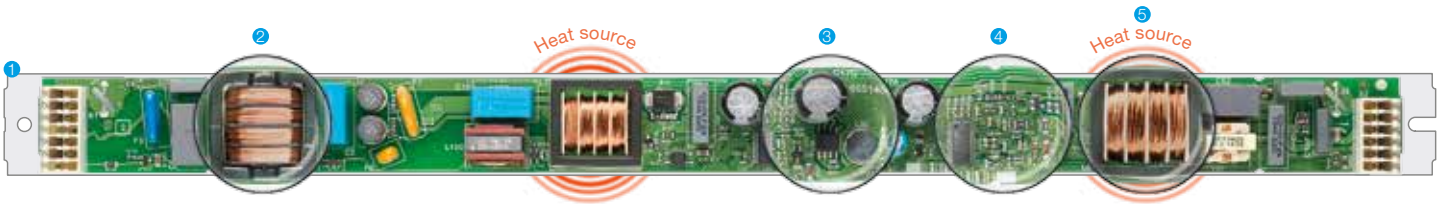
▼ High-bay sensor, combinable with system solutions, for industrial applications



▼ At a glance: basic ILD 16DPI 69f

- ___ For ceiling heights of 8–16 m (8–12 and 12–16 m adjustable)
- ___ With motion detection, daylight control and IR control
- ___ IP65 protection

Robust design, long life and low error rate

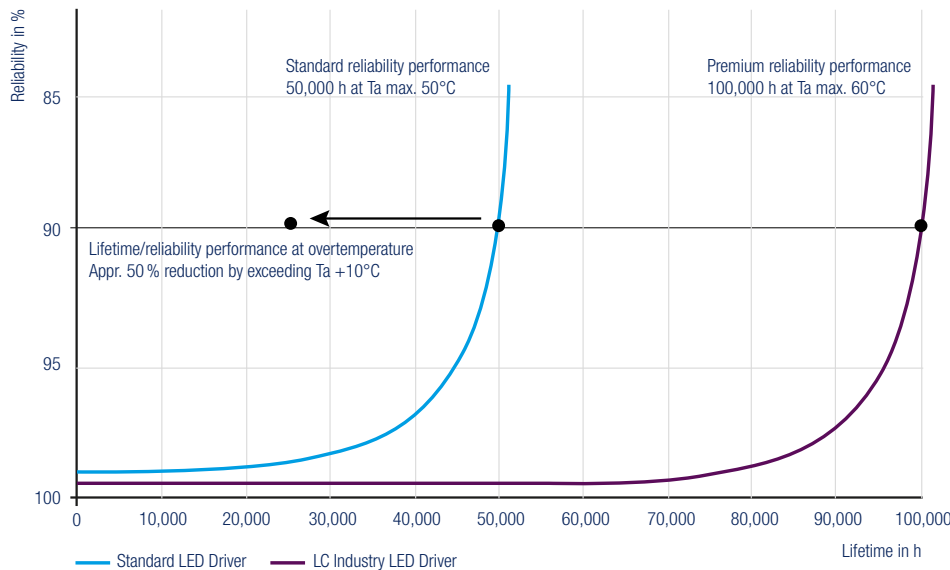


- 1 Due to the size of the casing, the temperature of the components is reduced by up to 50 %
- 2 Extremely robust input filter to protect against mains transients of up to 4 kV (surge/burst)
- 3 Two smoothing capacitors connected in parallel for longer life
- 4 Double-sided printed circuit board and therefore better attachment of the components as protection against constant mechanical loads and vibrations
- 5 Maximum distance between heat sources and lifetime-critical components

Qualities	Standard performance	Tridonic Industry
Temperature range	−25°C...+50°C	−40°C...+70°C
Dielectric strength (surge/burst)	2 kV	4 kV
Guarantee	5 Years	8 Years
Lifetime ta=50°C	70,000 h	200,000 h
Lifetime ta=60°C	30,000 h	100,000 h
Lifetime ta=70°C	0 h	50,000 h
Max. Failure rate (50,000h, ta=50°C)	10 %	2.5 %

TALEXdriver from Tridonic for industrial applications have been designed to reduce stress on the components and lead to long life (thermal load/peak voltage).

- ▼ Designed for extremely harsh environments
 - Ambient temperatures of −40 to +70 °C
 - Protection against transients up to 4 kV
 - 4 times longer life and 4 times lower error rate than standard devices



TALEXdriver PREMIUM INDUSTRY



TALEXdriver PRE Industry sl

▼ At a glance: PREMIUM INDUSTRY

- ___ Dimmable constant-current LED Driver for luminaire installation
- ___ For linear high-bay luminaires
- ___ 8-year guarantee
- ___ Life-time of 100,000 hours
- ___ Extended temperature range of -40 to +70°C
- ___ Increased dielectric strength (Surge/Burst) of 4 kV/4 kV
- ___ Adjustable current from 150–1,050 mA
- ___ Type of protection IP20

TALEXdriver PREMIUM | Linear

Designation	Output current (mA)	Output power (W)	Output voltage range* (V)	Input voltage (V)	Size (mm)	Guarantee (Year)	Extended temperature range (°C)	Order No.
PREMIUM Industry for tough environments								
LCAI 65 W 150mA–400mA ECO INDUSTRY sl	150–400	65	250	220~240	425 x 30 x 28	8	-40 to +70	28000348
LCAI 100W 350mA–900mA ECO INDUSTRY sl	350–900	100	250	220~240	425 x 30 x 28	8	-40 to +70	28000349
LCAI 150W 350mA-1050mA ECO INDUSTRY sl	350–1,050	150	420	220~240	425 x 30 x 28	8	-40 to +70	28000527
PREMIUM Industry for moderate environments								
LCAI 150W 350mA-1050mA ECO sl	350–1,050	150	300	220~240	425 x 30 x 28	5	-25 to +60	28001586

* Depending on the selected output current. Further details can be found in datasheet.

TALEXdriver EXCITE INDUSTRY



▼ At a glance: EXCITE INDUSTRY

- ___ Dimmable constant-current LED Driver for luminaire installation
- ___ For linear high-bay luminaires
- ___ 8-year guarantee
- ___ Life-time of 100,000 hours
- ___ Extended temperature range of -40 to +70°C
- ___ Increased dielectric strength (Surge/Burst) of 4 kV/4 kV
- ___ Adjustable current from 350–900 mA
- ___ Type of protection IP20

TALEXdriver EXCITE | Linear

Designation	Output current (mA)	Output power (W)	Output voltage range* (V)	Input voltage (V)	Size (mm)	Order No.
LCA 150W 350-900mA 1–10V IND sl EXC	350–900	150	420	220~240	425 x 30 x 28	28000835

* Depending on the selected output current. Further details can be found in datasheet.

TALEXdriver ADVANCED INDUSTRY



TALEXdriver ADV Industry sl

▼ At a glance: ADVANCED INDUSTRY

- ___ Separate fixed-output LED Driver
- ___ For linear high-bay luminaires
- ___ 8-year guarantee
- ___ Life-time of 100,000 hours
- ___ Extended temperature range of -40 to +70°C
- ___ Increased dielectric strength (Surge/Burst) of 4 kV/4 kV
- ___ Adjustable current from 150–900 mA
- ___ Type of protection IP20

TALEXdriver ADVANCED | Linear

Designation	Output current (mA)	Output power (W)	Output voltage range* (V)	Input voltage (V)	Size (mm)	Order No.
LCI 65W 150mA–400mA TOP INDUSTRY sl	150–400	65	250	220~240	425 x 30 x 28	28000537
LCI 100W 350mA–900mA TOP INDUSTRY sl	350–900	100	250	220~240	425 x 30 x 28	28000538
LC 150W 350-900mA flexC IND sl ADV	350–900	150	420	220~240	425 x 30 x 28	28000916

* Depending on the selected output current. Further details can be found in datasheet.

TALEXengine for industrial applications

TALEXengine LLE high robust



Typical applications



▼ At a glance: TALEXengine LLE high robust

- ___ High module efficiency up to 141 lm/W (tp=65 °C)
- ___ Narrow colour tolerance: MacAdam 3 for 3,000 K, 4,000 K und 5,000 K
- ___ Narrow colour tolerance: MacAdam 4 for 6,500 K
- ___ 8-year guarantee
- ___ Extended temperature range
- ___ Nominal life of up to 100,000 hours

TALEXengine LLE high robust EXCITE

TALEXmodule	Order No.	Colourtemperature (K)	CRI	Typ. Lichtstrom ¹⁾ Betriebsmodus (lm)		Typ. Leistungsauf- nahme ¹⁾ Betriebsmodus (W)		Module efficacy (lm/W) (Tp=65 °C)		Size (mm)
				High Efficiency	High Output	High Efficiency	High Output	High Efficiency	High Output	
LLE 24x280mm 2000lm 830 EXC	89602077	3,000	80	2,230	2,900	15.9	23.9	140	121	24x280
LLE 24x280mm 2000lm 840 EXC	89602078	4,000	80	2,240	2,940	15.9	23.9	141	123	24x280
LLE 24x280mm 2000lm 850 EXC	89602079	5,000	80	2,240	2,940	15.9	23.9	141	123	24x280
LLE 24x280mm 2000lm 865 EXC	89602080	6,500	80	2,240	2,940	15.9	23.9	141	123	24x280

¹⁾ Tolerance range for optical and electrical data ±10 %.

Matching TALEXdriver

TALEXdriver	Order No.
TALEXdriver with dimming funktion	
LCAI 65W 150-400mA ECO INDUSTRY Ip	28000348
LCAI 100W 350-900mA ECO INDUSTRY Ip	28000349
LCAI 150W 350-1050mA ECO INDUSTRY sl	28000527
LCA 150W 350-900mA 1-10V IND sl EXC	28000349
TALEXdriver without dimming funktion	
LCI 65W 150-400mA TOP INDUSTRY Ip	28000537
LCI 100W 350-900mA TOP INDUSTRY Ip	28000538
LC 150W 350-900mA flexC IND sl ADV	28000916

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 the slogan: We devote all our energy to your light.



TALEXengine DLE



TALEXengine CLE



TALEXengine CLE Integrated



TALEXengine LLE-FLEX



TALEXengine SLE



TALEXengine FLE



TALEXengine LLE



TALEXengine QLE

As an international company, Tridonic is represented worldwide by 30 branch offices and partners in 73 countries.



Headquarters

Tridonic GmbH & Co KG
Färbergasse 15 | 6851 Dornbirn, Austria
T +43 5572 395-0 | F +43 5572 20176
www.tridonic.com | sales@tridonic.com

Light you want to follow.

