

IP66 IK07  

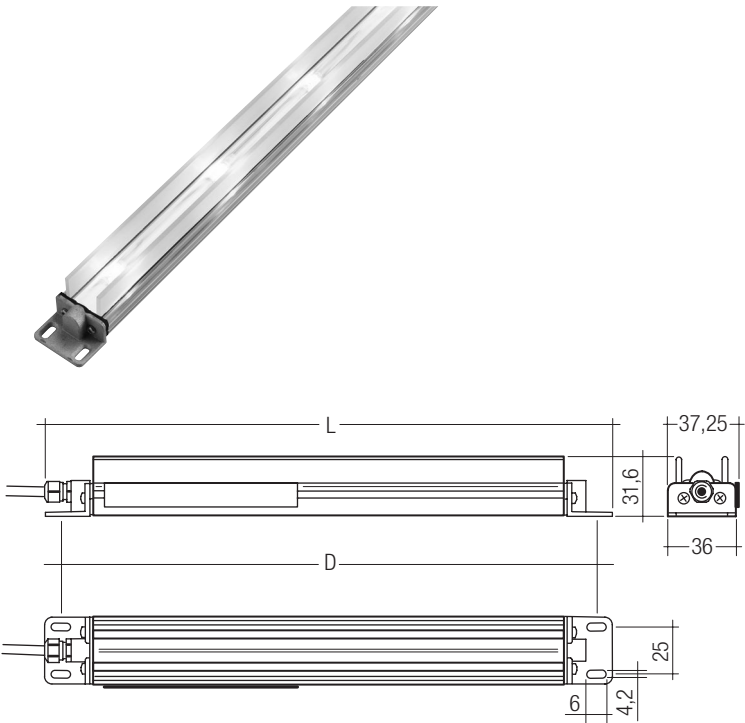
TALEXengine IMAGE PREMIUM
TALEXengine IMAGE 700 mA

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: two-core, white, length ca. 1 m
- Cross section connection: 2 x 0.5 mm²
- Cooling section made of anodised, extruded aluminium
- End caps made of metal
- Linear lenses made of PMMA
- Safety extra low voltage (SELV), protection class III

Technical data

Supply current DC	700 mA
Ambient temperature t _a	-30 ... +40 °C
Max. surface temperature on profile	65 °C
Storage temperature t _s	-30 ... +80 °C
Type of protection	IP66
Shock resistance	IK07
Protection class	III
Risk group (EN 62471:2008)	1



Standards, page 3

Colour temperatures and tolerances, page 5

Ordering data

Length L	Colour	Colour temperature ^①	Type	Article number
300 mm	Daylight white	6,500 K	LED IMA-PRE DL 700mA 300 3 66	89601607
500 mm	Daylight white	6,500 K	LED IMA-PRE DL 700mA 500 5 66	89601608
600 mm	Daylight white	6,500 K	LED IMA-PRE DL 700mA 600 6 66	89601609
900 mm	Daylight white	6,500 K	LED IMA-PRE DL 700mA 900 9 66	89601610
1,200 mm	Daylight white	6,500 K	LED IMA-PRE DL 700mA 1200 12 66	89601611

Packaging 300 mm length: 78 pieces/carton, 780 pieces/pallet

Packaging 500, 600 mm length: 39 pieces/carton, 390 pieces/pallet

Packaging 900 – 1.200 mm length: 12 pieces/carton, 240 pieces/pallet

Specific technical data

Type	Photometric code	Hole spacing D	Number of LED	Lens	Colour rendering index CRI	Typ. luminous flux ^②	Typ. forward voltage ^③	Power consumption, typ. ^④	Luminous efficacy
LED IMA-PRE DL 700mA 300 3 66	765 / 569	283 mm	3	30°	75	435 lm	10.5 V	7.3 W	59 lm/W
LED IMA-PRE DL 700mA 500 5 66	765 / 569	483 mm	5	30°	75	725 lm	17.5 V	12.3 W	59 lm/W
LED IMA-PRE DL 700mA 600 6 66	765 / 569	583 mm	6	30°	75	870 lm	21.0 V	14.7 W	59 lm/W
LED IMA-PRE DL 700mA 900 9 66	765 / 569	883 mm	9	30°	75	1,305 lm	31.5 V	22.0 W	59 lm/W
LED IMA-PRE DL 700mA 1200 12 66	765 / 569	1,183 mm	12	30°	75	1,740 lm	42.0 V	29.4 W	59 lm/W

^① Tolerance range for optical data: +0 % / -30 %.

^② At t_c = 45 °C.

^③ Tolerance range for electrical data: ±15 %.

^④ Value refers to LED (central measurement).

All values at t_a = 25 °C and 700 mA.

Converter matrix – TALEXengine IMAGE PREMIUM 700 mA

Type	LCI 015/0700 E020 ^①	LCI 030/0700 E020 ^①	LCI 015/0700 M020 ^②	LCI 030/0700 M120 ^②
Article number	24166313	24166314	86459181	86459178

Assignable converter

Type	Article number	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
LED IMA-PRE DL 700mA 300 3 66	89601607	1	1	3	3	1	2	1	4
LED IMA-PRE DL 700mA 500 5 66	89601608	1	1	2	2	1	1	1	2
LED IMA-PRE DL 700mA 600 6 66	89601609					1	1	1	2
LED IMA-PRE DL 700mA 900 9 66	89601610			1	1			1	1
LED IMA-PRE DL 700mA 1200 12 66	89601611			1	1			1	1

^① Type of protection IP20

^② Type of protection IP67

Standards

- EN 60598-2-1
- EN 62031
- EN 62471

The product meets the “independent LED module” classification according to EN 62031.

Photometric code

Key for photometric code, e. g. 830 / 559

1 st digit	2 nd + 3 rd digit	4 th digit	5 th digit	6 th digit
Code	Colour temperature in Kelvin x 100	McAdams initial	McAdams after 25% of the lifetime (max.6000h)	Lumen maintenance after 25% of the lifetime (max.6000h)
7	67 – 76			Code
8	77 – 86			Remaining lumen
9	87 – ≥90			
				7 ≥ 70 %
				8 ≥ 80 %
				9 ≥ 90 %

Thermal behaviour

operation temperature (operation, no defects)	ta	- 30 → + 40 °C
storage temperature	ts	- 30 → + 80 °C
max. temperature cooling profile	tc	- 30 → + 65 °C

The values apply to operation at 100 % output, natural convection.

If the maximum temperature limits are exceeded, the life of the TALEXengine IMAGE PREMIUM will be greatly reduced. The TALEXengine IMAGE PREMIUM can fail within a short time.

The tc point temperature of the TALEXengine IMAGE PREMIUM has to be measured in the thermally stable state and under operating conditions. Measurement setup e.g. according to IEC/EN 60598-1.

Installation of TALEXengine IMAGE PREMIUM

- Mount with end caps.
- Screws ST3.9 and ST3.5 (according to EN ISO 15481) can be used for the mounting hole.

Electrical supply/choice of converter

TALEXengine IMAGE PREMIUM from Tridonic are not protected against overvoltages, overcurrents, overloads or short-circuit currents. Safe and reliable operation can only be guaranteed in conjunction with a converter which complies with the relevant standards. The use of TALEX converters from Tridonic in combination with TALEXengine IMAGE PREMIUM guarantees the necessary protection for safe and reliable operation.

If a converter other than Tridonic TALEXconverter is used, it must provide the following protection:

- Short-circuit protection
- Overtemperature protection

TALEXengine IMAGE PREMIUM must be supplied by a constant current converter. Operation with a constant voltage converter will lead to an irreversible damage. The TALEXengine IMAGE PREMIUM is equipped with reverse voltage protection up to 50 V.

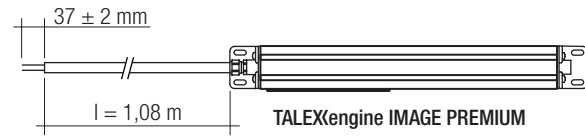


- For chaining of multiple TALEXengine IMAGE PREMIUM units please note the wiring example and the number of engines/converters.
- The converter must be switched off before connecting the TALEXengine IMAGE PREMIUM.
This can damage the TALEXengine IMAGE PREMIUM!

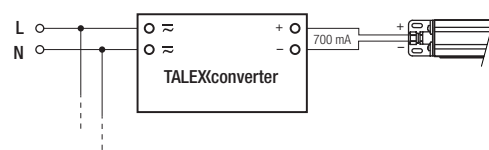
Wiring

Cable: cross section 2 x 0,5 mm², white

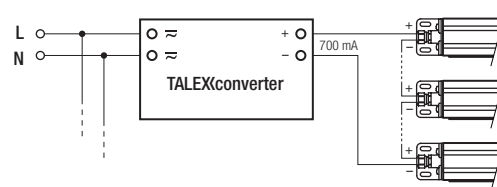
Colour	red	black
Function	+	-



Wiring example TALEXengine IMAGE PREMIUM



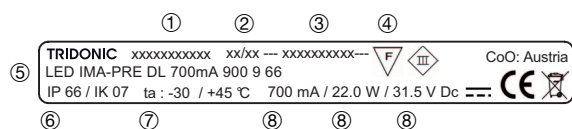
Wiring example for 2 or more TALEXengine IMAGE PREMIUM in series



Lifetime

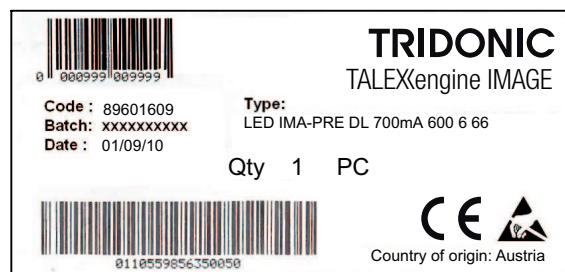
tc temperature in °C	luminous flux in %	life time in h
0	80	31.000
	70	50.000
	50	96.000
15	80	30.000
	70	48.000
	50	93.000
25	80	29.000
	70	47.000
	50	91.000
45	80	28.000
	70	45.000
	50	87.000
65	80	26.000
	70	42.000
	50	81.000

Label product

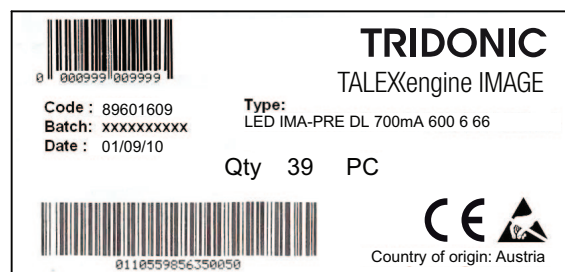


- ① Article number
- ② Production date MM/YY
- ③ Production batch
- ④ Normative symbols
- ⑤ Type of the engine
- ⑥ IP declaration
- ⑦ Ambient temperature limits
- ⑧ Electrical specification

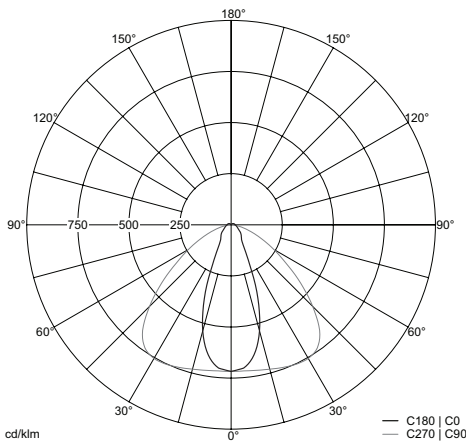
Label product packaging



Label carton



Luminous intensity distribution TALEXengine IMAGE PREMIUM:



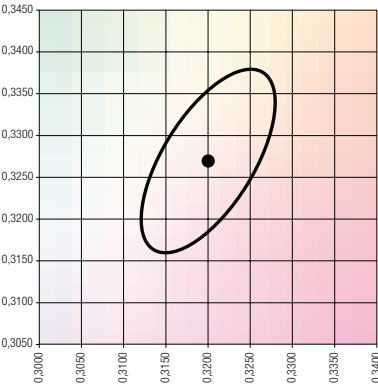
Average illuminance Mounting height	LED IMA-PRE DL 700mA 300 3 66	LED IMA-PRE DL 700mA 500 5 66	LED IMA-PRE DL 700mA 600 6 66	LED IMA-PRE DL 700mA 900 9 66	LED IMA-PRE DL 700mA 1200 12 66
	0.25 m	0.50 m	0.75 m	1.00 m	
0.25 m	3,616 lx	6,027 lx	7,233 lx	10,849 lx	14,465 lx
0.50 m	904 lx	1,507 lx	1,808 lx	2,712 lx	3,616 lx
0.75 m	402 lx	670 lx	804 lx	1,205 lx	1,607 lx
1.00 m	226 lx	377 lx	452 lx	678 lx	904 lx

Coordinates and tolerances according to CIE 1964

CIE coordinates

Daylight white 6,500 K

	x0	y0
Centre	0.3200	0.3270



MacAdam Ellipse: 5SDCM

