

IP66  

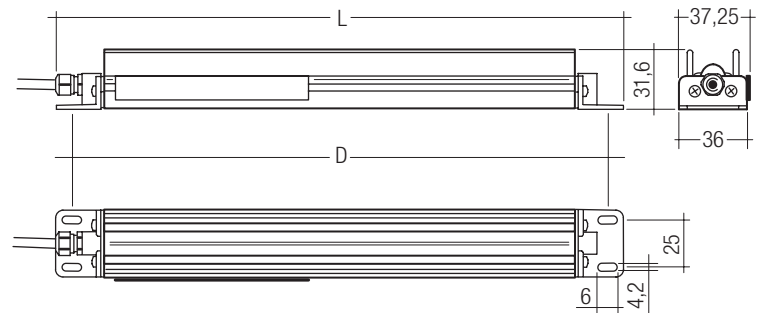
## TALEXengine IMAGE PREMIUM TALEXengine IMAGE 700 mA

### 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, black, length 1 m
- Cross section connection: 2 x 0.5 mm<sup>2</sup>
- 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 ... +45 °C
Max. surface temperature on profile	65 °C
Type of protection	IP66
Protection class	III



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Colour temperatures and tolerances, page 4

### Ordering data

Colour temperature	Colour	Beam angle	Type	Article number
6,500 K	Daylight white	30°	LED IMA-PRE DL 700mA 300 3 66 001	22185171
6,500 K	Daylight white	30°	LED IMA-PRE DL 700mA 500 5 66 001	22185172
6,500 K	Daylight white	30°	LED IMA-PRE DL 700mA 600 6 66 001	22185173
6,500 K	Daylight white	30°	LED IMA-PRE DL 700mA 900 9 66 001	22185174
6,500 K	Daylight white	30°	LED IMA-PRE DL 700mA 1200 12 66 001	22185175
6,500 K	Daylight white	30°	LED IMA-PRE DL 700mA 1500 12 66 001	22185176

Packaging 300 mm length: 16 pieces/carton, 576 pieces/pallet

Packaging 500 mm length: 16 pieces/carton, 384 pieces/pallet

Packaging 600 mm length: 16 pieces/carton, 288 pieces/pallet

Packaging 900 – 1.500 mm length: 16 pieces/carton, 192 pieces/pallet

### Specific technical data

Type	Length L	Hole spacing D	Number of LEDs	Colour rendering index CRI	Typ. luminous flux <sup>①</sup>	Typ. forward voltage <sup>②</sup>	Typ. power consumption <sup>②</sup>
LED IMA-PRE DL 700mA 300 3 66 001	300 mm	283 mm	3	75	435 lm	10.2 V	7.2 W
LED IMA-PRE DL 700mA 500 5 66 001	500 mm	483 mm	5	75	725 lm	17.0 V	12.0 W
LED IMA-PRE DL 700mA 600 6 66 001	600 mm	583 mm	6	75	870 lm	20.4 V	14.4 W
LED IMA-PRE DL 700mA 900 9 66 001	900 mm	883 mm	9	75	1,305 lm	30.6 V	21.6 W
LED IMA-PRE DL 700mA 1200 12 66 001	1,200 mm	1,183 mm	12	75	1,740 lm	40.8 V	28.8 W
LED IMA-PRE DL 700mA 1500 12 66 001	1,500 mm	1,483 mm	12	75	1,740 lm	40.8 V	28.8 W

<sup>①</sup> Tolerance range for optical data: ±15 %.

<sup>②</sup> Tolerance range for electrical data: ±15 %.

<sup>③</sup> At  $t_c = 45$  °C.

All values at  $t_a = 25$  °C.

**Standards**

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

**Thermal behaviour**

operation temperature (operation, no defects)	ta	- 30 → + 45 °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.

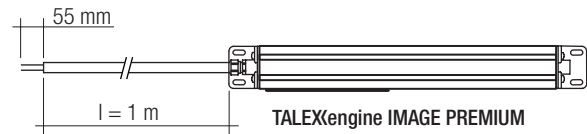


- For chaining of multiple TALEXengine IMAGE PREMIUM units please note the wiring example and the number of engines/converters.
- The converter must be switched off before connecting the TALEXengine IMAGE PREMIUM. This can damage the TALEXengine IMAGE PREMIUM!

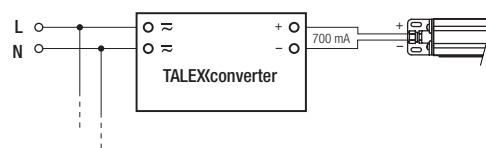
**Wiring**

Cable: cross section 2 x 0,5 mm<sup>2</sup>, black, Length 1 m

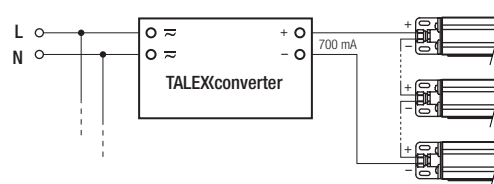
Colour	red	black
Function	+	-



**Wiring example TALEXengine IMAGE PREMIUM**



**Wiring example for 2 or more TALEXengine IMAGE PREMIUM in series**



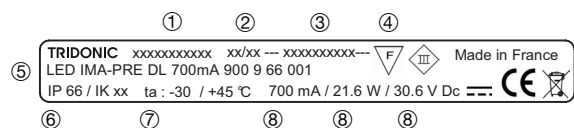
**Lifetime**

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

TALEXengine IMAGE PREMIUM can be used with following converter:

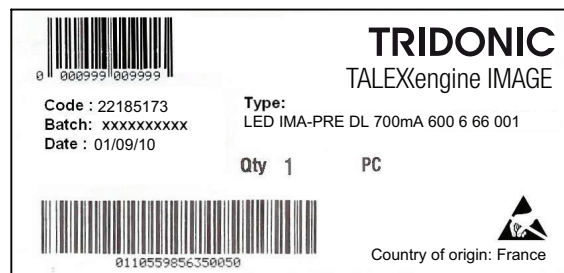
Type	Number of engines in series	Converter	Article number	P <sub>out</sub>	IP	Dimming	
LED IMA-PRE DL 700mA 300 3 66 001	1	LCBI 015/0700 B020	86458897	16	IP20	analog	
		LCAI 030/0700 A120 one4all	86458900	30	IP20	digital	
		LCI 015/0700 E020	24166313	15	IP20	–	
	2	LCAI 030/0700 A120 one4all	86458900	30	IP20	digital	
		3	LCAI 030/0700 A120 one4all	86458900	30	IP20	digital
			LCI 030/0700 E020	24166314	30	IP20	–
LED IMA-PRE DL 700mA 500 5 66 001	1	LCBI 015/0700 B020	86458897	16	IP20	analog	
		LCAI 030/0700 A120 one4all	86458900	30	IP20	digital	
		LCI 015/0700 E020	24166314	15	IP20	–	
	2	LCAI 030/0700 A120 one4all	86458900	30	IP20	digital	
		1	LCBI 015/0700 B020	86458897	16	IP20	analog
			LCAI 030/0700 A120 one4all	86458900	30	IP20	digital
LED IMA-PRE DL 700mA 900 9 66 001	1	LCAI 030/0700 A120 one4all	86458900	30	IP20	digital	
LED IMA-PRE DL 700mA 1200 12 66 001	1	Please contact local sales representative					
LED IMA-PRE DL 700mA 1500 12 66 001	1	Please contact local sales representative					

Label product

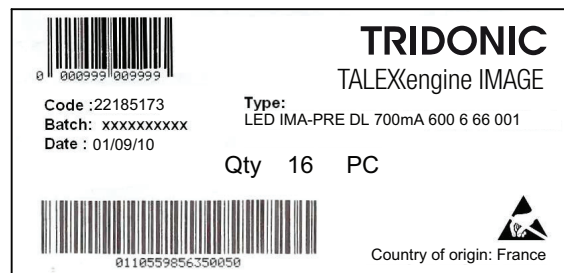


- ① Article number
- ② Production date MM/YY
- ③ Production batch
- ④ Normative symbols
- ⑤ Type of the engine
- ⑥ IP declaration
- ⑦ Ambient temperature limits
- ⑧ Electrical specification

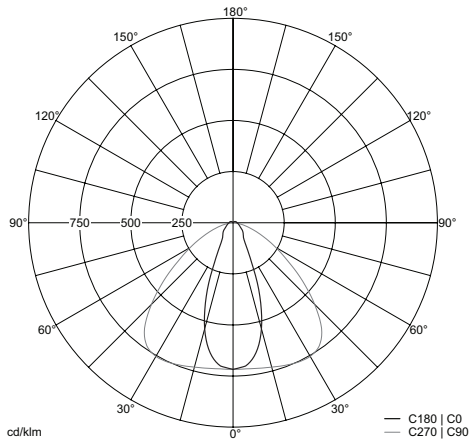
Label product packaging



Label carton



Luminous intensity distribution TALEXengine IMAGE PREMIUM:



Average illuminance		LED IMA-PRE DL 700mA 300 3 66 001	LED IMA-PRE DL 700mA 500 5 66 001	LED IMA-PRE DL 700mA 600 6 66 001	LED IMA-PRE DL 700mA 900 9 66 001	LED IMA-PRE DL 700mA 1200 12 66 001	LED IMA-PRE DL 700mA 1500 12 66 001
Mounting height	Beam diameter						
0.25 m	0.18 m	3,616 lx	6,027 lx	7,233 lx	10,849 lx	14,465 lx	14,465 lx
0.50 m	0.36 m	904 lx	1,507 lx	1,808 lx	2,712 lx	3,616 lx	3,616 lx
0.75 m	0.54 m	402 lx	670 lx	804 lx	1,205 lx	1,607 lx	1,607 lx
1.00 m	0.72 m	226 lx	377 lx	452 lx	678 lx	904 lx	904 lx

The evaluation to the eye safety is according to the EN 62471:2008  
(Photobiological safety of lamps and lamp systems)

Type	Article number	Colour	Actinic UV	near UV	blue light	retinal thermal	IR radiation, eye
			$E_s$	$E_{UVA}$	$L_B$	$L_R$	$E_{IR}$
			200–400 nm	315–400 nm	300–700 nm	380–1,400 nm	780–3,000 nm
LED IMA-PRE DL 700mA 300 3 66 001	22185171	Daylight white	exempt	exempt	exempt	exempt	exempt
LED IMA-PRE DL 700mA 500 5 66 001	22185172	Daylight white	exempt	exempt	exempt	exempt	exempt
LED IMA-PRE DL 700mA 600 6 66 001	22185173	Daylight white	exempt	exempt	exempt	exempt	exempt
LED IMA-PRE DL 700mA 900 9 66 001	22185174	Daylight white	exempt	exempt	exempt	exempt	exempt
LED IMA-PRE DL 700mA 1200 12 66 001	22185175	Daylight white	exempt	exempt	exempt	exempt	exempt
LED IMA-PRE DL 700mA 1500 12 66 001	22185176	Daylight white	exempt	exempt	exempt	exempt	exempt

**Exempt:**

The LED does not pose any photobiological hazard.

**Low risk:**

The LED does not pose a hazard due to normal behavioral limitations on exposure.

**Moderate risk:**

The LED does not pose a hazard due to the aversion response to very bright light sources or due to thermal discomfort.

**High risk:**

The LED may pose a hazard even for momentary or brief exposure.

Coordinates and tolerances according to CIE 1964

CIE coordinates

Daylight white 6,500 K

	x0	y0
Centre	0.3200	0.3270

MacAdam Ellipse: 5SDCM

Daylight white

