



EN XL6912SC

STAINLESS STEEL TECHNICAL FIXTURES CEILING MOUNTED



General specification

- Number of source: 1 pcs
- Type: Mid power LED - OSRAM
- Light Color (CCT): 3000K - 4000K - 6000K
- CRI: 90+ (85+ for 6000K)
- SDCM: 3-steps MacAdam ellipses¹
- Environmental: Indoor/Outdoor
- IP/IK Rating: IP66/67, IK08
- Light Distribution: Symmetric
- Viewing Angle (FWHM): 160°
- Aiming: Fixed
- Dimensions (LxWxH): See mechanical drawing
- Housing: Stainless Steel
- Finishing: Powder coated RAL 9016 (>10µm)
- Diffuser: PC opal diffuser, UV resistant (UL94 V0) - Provided with plastic protection
- Weight: 3,6 kg
- Compliance: CE, Rohs, EN 60598-2-1:2021, EN 60598-2-24:2013, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 61547:2009, EN 62311:2008, EN 62471:2008, EN 62493:2015, EN IEC 55015:2019, EN IEC 55015:2019/A11:2020, EN IEC 60598-1:2021, EN IEC 60598-1:2021/A11:2022, EN IEC 60598-2-22:2022, EN IEC 63000:2018, IEC TR 62778:2014 (ISO 12944)
- Type approval Bureau Veritas: pending
- Risk group (EN 62471:2008): 0
- Marking (customizable): Label on cable
- Lifetime (Lumen depreciation): ≥50.000hr L70B50

Electrical specification²

- Input Voltage: 230 Vac 50-60Hz
- Input Current: 126 mA
- Power Consumption: 29 W (@700mA led source)
- Electrical Connection: 2x internal screw terminal block 3x4mm²
- Cable Gland: 2x M20x1,5 nickel-plated brass (cable section 7-16mm) + 2 closing caps
- Driver/Dimmer: Integral constant current driver (Tridonic 28004142 - included)/Not dimmable (see driver technical specification attached)
- Insulation Class: I

Operating condition

- Working Temp. Range: -30 °C +55 °C
- Storage Temp. Range: -30 °C +60 °C
- Max Tc Temp: +80 °C Measured on the driver enclosure
- Rel. Humidity (non cond.): 10% - 85%

Application

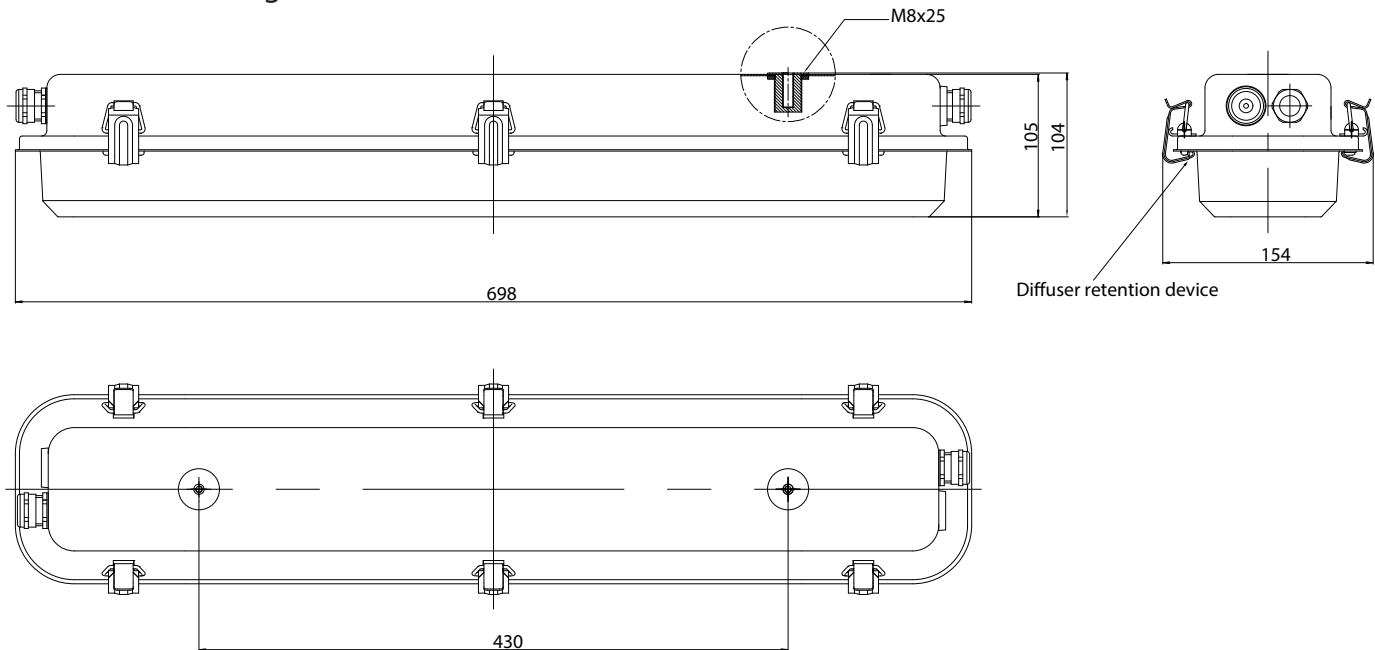
- Marine application
- Technical locker
- Warehouse
- Open deck

Light source specification

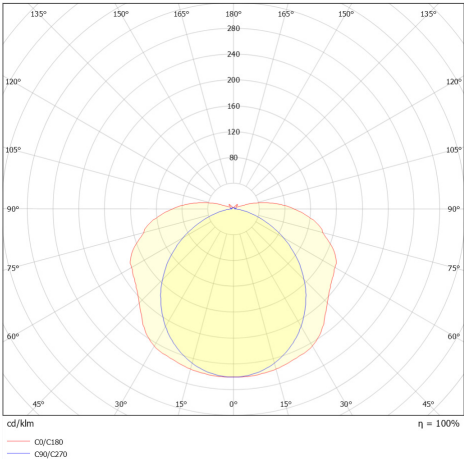
Color (CCT) ²	Light Source Power (W)	Typ. Output flux (Lm) ²	Efficacy ⁴ (Lm/W)	Product Code
3000K	29	3.509	121	ENXL6912SC.7029830X2N
4000K	29	3.509	121	ENXL6912SC.7029840X2N
6000K	29	3.509	121	ENXL6912SC.7029860X2N

Table 1: Optical characteristics
1. Tolerance range for optical and electrical data: ±10 %
2. Central measurement over the complete module

Mechanical drawings



Light distribution

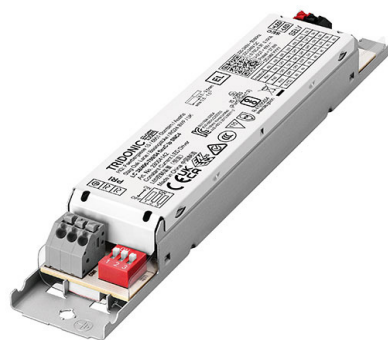


Accessories

Stainless steel M8x25mm threaded pin (2x) with cap nuts, grower rings and anti vibration gaskets

Note

Eulumdat file according to EN 13032-1 available upon request.
Product customization available on request.
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28004142

38W CC LED CONTROL GEAR, IP20 PROGRAMMABLE



Output technical specifications

	Min	Typical	Max
Dc Voltage			60V
Rated Current	400mA		700mA
Rated Power	8W		37,8W
Ripple Current ¹	±5%		
Line Regulation	-4%		+4%
Load Regulation	-5%		+5%
Setup, Rise Time ⁵ @ 240Vac	20 ms		500 ms
Hold Up Time	≤0.5sec (230VAC, full load)		
Output wiring section	0,5 - 1,5 sqm		

Input Technical specifications

Voltage ⁴	198Vac		264Vac
Frequency	50Hz		60Hz
Efficiency		86,5%	
AC Current @ 230Vac			0.191mA
Inrush Current - Cold Start/230Vac 200usec	≤15A/100μs (230VAC, 50 Hz full load)		
Leakage Current	<450μA, I/P to O/P @230V input		
Input Wiring	0,5 - 1,5 sqm		
Power Factor	>0,97		
Total Harmoinc Distortion (THD)	<12%		

Protection

Overload	Auto recovery after failure elimination		
Short Circuit	Auto recovery after failure elimination		
High Temperature (shut down, restart after recovery)	90 °C	100 °C	110 °C

Environment

Working Temperature	-30°C		+60°C
Working Humidity (non condensing)	5%		85%
Storage Temperature, Humidity (non condensing)	-40°C, 5%		+80°C, 85%
Temperature Coefficient	±0.03%/°C (0 ~ 50°C)		
Vibration (XYZ Axis)	10-500Hz, 2G, 10min/1 cycle. period for 60 min each		

Safety & EMC

Safety Standards	EN61347-1, EN61347-2-13
Performance prescriptions/Test methods	EN60598-1, EN62384, UL1012, UL8750
Emergency operations	EN50172
EMC Emission	EN55015, EN61000-3-2 Class C (≥ 75% load) ; EN61000-3-3; EN61000-4-4; EN61000-4-5
EMC Immunity	EN61547, light industry level (surge 4KV), criteria A

Others

MTBF	100KHrs (MIL HDBK-2117-F 40°C Tc 65°)
Dimensions/Weight	180x30x21mm (LxWxH)
IP Rating	IP 20
Housing	Metallic
Dimming Method	Na
Insulation Class	II

Note: All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

1. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

2. Tolerance : includes set up tolerance, line regulation and load regulation.

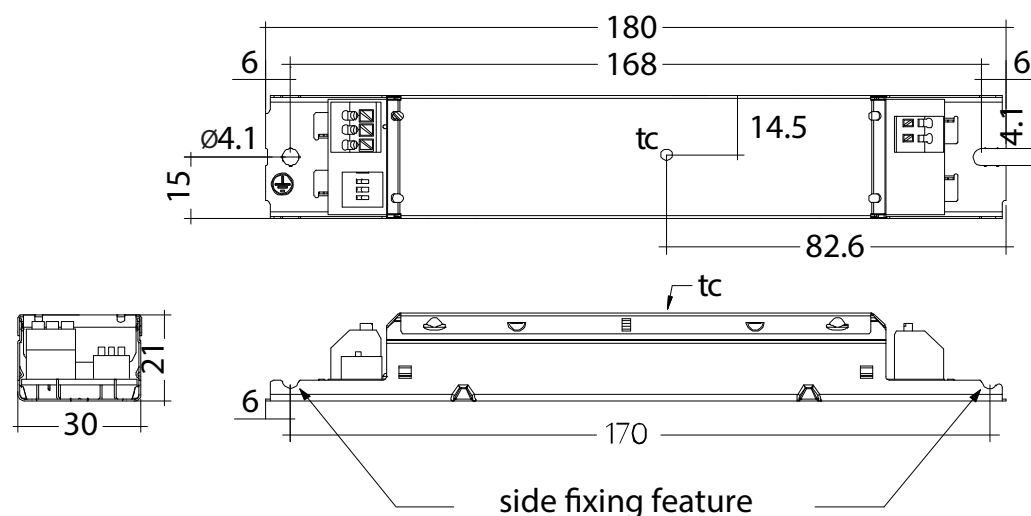
3. Derating may be needed under low input voltage. Please check the static characteristics for more details.

4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

5. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.

6. Suitable for indoor use without direct sunlight exposure.

Mechanical Specification



Output current setting

Output current	1	2	3
400 mA	ON	-	-
450 mA	-	ON	-
500 mA	ON	ON	-
550 mA	-	-	ON
600 mA	ON	-	ON
650 mA	-	ON	ON
700 mA	ON	ON	ON

Maximum loading of ACB

Automatic circuit breaker type	C10	C13	C16	C20
Installation	1.5mm ²	1.5mm ²	2.5mm ²	2.5mm ²
	37	48	59	74

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