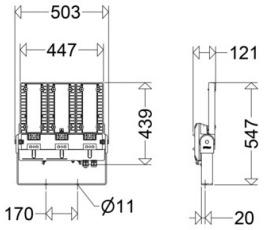
Explosion-protected LED floodlight

ExSTREAM
e8820/3 L150TB
[Item no. : 88200 0005]

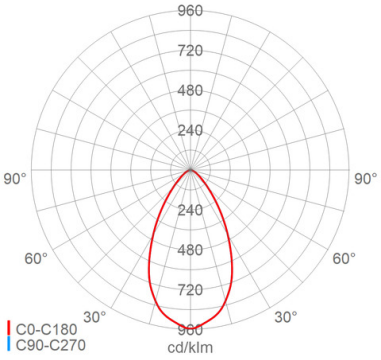
General product description

Explosion-proof LED floodlight ExSTREAM for Zone 1/21. Multi-part housing made of die-cast aluminum, powder-coated, thermally separated. Several LED housings with LED modules, highly efficient optics, direct distribution, multi-layer technology as well as temperature change-resistant safety glass. Cooling rib structure and direct connection of the LED to the housing to ensure optimal thermal management. Rear-mounted ECG housing made of die-cast aluminum, powder-coated, with built-in control gear, large connection space and two cable entries for in-out wiring. Mounting bracket can be swiveled in 5° steps around the longitudinal axis of the floodlight.



General product benefits

- robust, modular design
- highly efficient by using high-quality LED modules
- extremely high service life even at maximum admissible ambient temperature
- perfect thermal management due to direct connection of the LED modules to the aluminum housing, separation of ECG and LED housing, LED housing with integrated cooling fin structure, large cooling surface, excellent heat dissipation, very good convection
- colour rendering index CRI>80, according to the workplace guidelines suitable for nearly all plant locations
- homogenous and effective light distribution due to specially calculated lens optics
- inclination angle adjustable in 5° steps
- sustainable, interchangeable components



Applications

- hazardous areas zone 1 (gas) and zone 21 (dust)
- oil and gas industry, onshore and offshore, chemical, petrochemical and pharmaceutical plants, refineries, tank farms, loading stations, etc.
- light fitting is not suitable for use in areas with permanently high humiditiy and short operation time, e.g. sewage plants and rainwater retention basins

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Technical data

General

EAN/GTIN:	4041254352558

Explosion protection

EX-Zone:	1 , 21 , 2 , 22
EX-marking gas:	II 2 G Ex eb mb q IIC T4 Gb
EX-marking dust:	II 2 D Ex tb IIIC T100 °C Db
Primary ignition protection method:	eb
Temperature class:	T4
Surface temperature:	T100°C
ATEX:	IBExU 20 ATEX 1117
IECEx:	IECEx IBE 20.0028

Key technical data

Light source:	LED
Exchangeability:	light source with LED-housing and control gear replaceable by qualified person
Connected load:	125 W
Luminaire luminous flux:	14650 lm
Luminous efficacy:	117 lm/W
Colour temperature:	5500 K
Colour rendering (CRI):	≥ 80
Light colour:	855
Admissible ambient temperature T_a:	-30 °C to +40 °C
Control gear:	1 x ECG, Overload protection, Short circuit protection
Energy efficiency class:	D

Lighting technology

Optical system:	Lens optics
Optical system material:	PC
Light distribution:	narrow wide beam
Photobiological safety:	RG2

Service life

Service life LED:	L80B50>100000 h (@ Ta max), L80B50>100000 h (@ Ta 25°C), L90B50>90000 h (@ Ta 25°C)

Electrical connection

Rated voltage:	220 - 240 V, 0 Hz, 50/60 Hz
Terminal clamp:	Cage clamp, 5-polig, 1 - 4 mm²
Max. no. with circuit breaker B16:	12
CB B10/B13/B20:	8/10/16
CB C10/C13/C16/C20:	12/16/20/24
Cable entries:	M25 (2x), cable gland (2x), blanking plug (1x), Plastic, 8 - 17 mm

Electrical connection

In-out wiring (RR):	Yes

Features/Certificates

Protection class:	I
IP rating:	IP66
IK rating:	IK08
Approval marks:	CE

Mounting

Mounting method (accessories possibly needed):	Ceiling with bracket, Wall with bracket, Pole with pipe clamp
Operating position:	downwards radiation, forwards radiation
Mounting:	2-point
Swivel range:	0 - 90 °

Housing

Housing material:	Die-cast aluminium
Varnished:	Yes
Colour:	DB 702

Cover

Cover type / material:	Pane (Safety glass)
Cover characteristic:	clear
Closure:	screwed (Stainless steel (1.4301))

Dimension/Weight

Length:	547.00 mm
Width / Diameter:	503.00 mm
Height:	121.00 mm
Net weight:	11.20 kg

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Optional accessories / spare parts

Item no.	Item name	Item description
90117 9000	2537	cable gland M25 for Ex-Zone 1/21
90119 9000	2539	cable gland M25 with blanking plug for Ex-Zone 1/21
75739 9001	MAU 1 76/170 M10	
75739 9002	MAU 2 76/170 M10	