

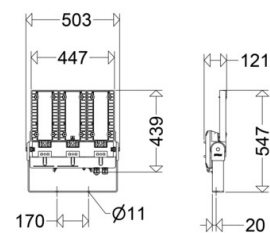
## Explosion-protected LED floodlight

**ExSTREAM****e8820/3 L120B H55**

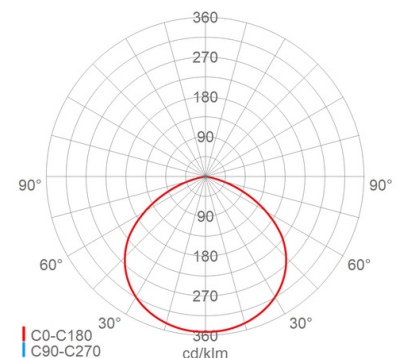
[ Item no. : 88200 0001 ]

**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, components replaceable
- environmentally friendly with 0° mounting (plane surface floodlight), no light emission in the upper half-space, dark-sky requirements are met

**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.

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**Technical data****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
Connected load:	87 W
Luminaire luminous flux:	11850 lm
Luminous efficacy:	136 lm/W
Colour temperature:	5500 K
Colour rendering (CRI):	≥ 80
Light colour:	855
Admissible ambient temperature Ta:	-30 °C to +55 °C
Control gear:	1 x ECG, Overload protection, Short circuit protection

**Lighting technology**

Optical system:	Lens optics
Light distribution:	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)
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**Electrical connection**

Rated voltage:	220 - 240 V, 0 Hz, 50/60 Hz
Terminal clamp:	Cage clamp, 5-polig, 1 - 4 mm <sup>2</sup>
Max. no. (with CB B16):	12
CB B10/B13/B20/B25:	7/9/15/18
CB C10/C13/C16/C20/C25:	12/16/20/24/31
Cable entries:	M25 (2x), cable gland (2x), blanking plug (1x), Plastic, 8 - 17 mm
In-out wiring (RR):	Yes

**Housing**

Housing material:	Die-cast aluminium
Varnished:	Yes
Colour:	DB702N

**Cover**

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

**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 °

**Features/Certificates**

Protection class:	I
IP rating:	IP66
Approval marks:	CE
Energy efficiency class:	D

**Dimension/Weight**

Length:	547.00 mm
Width/Diameter:	503.00 mm
Height:	121.00 mm
Net weight:	11.20 kg
EAN/GTIN:	4041254352565

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**Optional accessories/spare parts**

Item no.	Item name	Item description
90117 9000	2537	Ex-protected plastic cable gland M25x1.5
90119 9000	2539	Ex-protected plastic cable gland M25x1.5 with blanking plug
90270 0006	ROB 60/76 G2	