Explosion-protected LED emergency light fitting

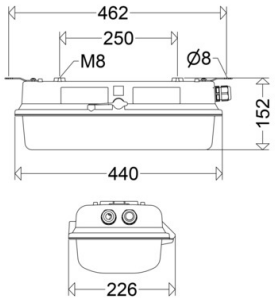
e855F L20 ZB

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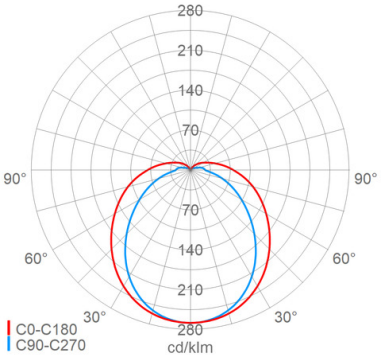
General product description

Compact explosion-protected LED light fitting with central locking system for zone 1/21 for connection to central power supply systems with incorporated fuse for selective disconnection in case of failure. Glass fibre reinforced polyester housing, frosted cover made of polycarbonate with silicone gasket. Steel reflector, varnished, with encapsulated LED modules and protective covers, hinged and removable. Encapsulated ECG with overvoltage, overload and short circuit protection. See „Technical data“ for details.



General product benefits

- extremely robust light fitting with high material thickness of housing and cover
- comfortable central locking system for fast connection and component exchange
- innovative LED encapsulation with high transmission factor for least loss of light
- homogenous illumination due to frosted cover for comfortable perception of light and brilliant glare limitation
- protective cover on the LED modules for protection against mechanical and electrostatic damage
- high colour rendering index CRI≥80, according to the workplace guidelines suitable for nearly all plant locations
- sustainable, interchangeable components



Applications

- hazardous areas zone 1 (gas) and zone 21 (dust)
- general lighting of small rooms, above doors or information/escape route lighting (with pictrogram)
- safety lighting of workplaces with particular risk as well as illumination / marking of escape and rescue routes
- 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:	4041254330082

Explosion protection

EX-Zone:	1 , 21 , 2 , 22
EX-marking gas:	II 2 G Ex eb mb op is q IIC T4 Gb
EX-marking dust:	II 2 D Ex op is tb IIIC T80°C Db
Primary ignition protection method:	eb
Temperature class:	T4
Surface temperature:	T80°C
ATEX:	IBExU 17 ATEX 1132
IECEx:	IECEx IBE 17.0037

Emergency lighting

Emergency power supply:	central supply (ZB)
DC level (ZB/central battery):	100 %
Inrushcurrent:	40 A
Peak:	114 µs

Key technical data

Light source:	LED
LED module standard:	Zhaga
Exchangeability:	light source with reflector and control gear replaceable by qualified person
Connected load:	18 W
Luminaire luminous flux:	2050 lm
Luminous efficacy:	114 lm/W
Colour temperature:	6500 K
Colour rendering (CRI):	≥ 80
Light colour:	865
Admissible ambient temperature T_a:	-30 °C to +60 °C
Control gear:	1 x ECG, Overload protection, Short circuit protection

Lighting technology

Optical system:	Diffuser
Optical system material:	PMMA
Light distribution:	wide beam
Photobiological safety:	RG1

Service life

Service life LED:	L80B50>100000 h (@ Ta max), L80B50>100000 h (@ Ta 25°C), L90B50>95000 h (@ Ta 25°C)

Electrical connection

Rated voltage:	220 - 240 V, 0 Hz, 50/60 Hz
Terminal clamp:	Cage clamp, 3-polig, 1 - 4 mm²

Electrical connection

Max. no. with circuit breaker B16:	19
CB B10/B13/B20:	12/16/24
CB C10/C13/C16/C20:	19/25/32/39
Cable entries:	M25 (2x), cable gland (2x), Plastic, 8 - 17 mm
In-out wiring (RR):	Yes

Features/Certificates

Protection class:	I
IP rating:	IP66
IK rating:	IK10
Approval marks:	CE

Mounting

Mounting method (accessories possibly needed):	Suspended, Pole with pipe clamp, Pipe clamp, Mounting rail, Wall, Wall with angle, Ceiling, Ceiling with angle, Rope
Operating position:	downwards radiation, forwards radiation, vertical, horizontal
Mounting:	2-point

Housing

Housing material:	Glass fibre reinforced polyester
Colour:	grey

Cover

Cover type / material:	Diffuser (PC)
Cover characteristic:	satined
Closure:	Central locking (hex socket 13mm) (Plastic)

Dimension/Weight

Length:	440.00 mm
Width / Diameter:	226.00 mm
Height:	152.00 mm
Net weight:	5.10 kg

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Optional accessories / spare parts

Item no.	Item name	Item description
85501 9001	ABD 855	
90117 9000	2537	cable gland M25 for Ex-Zone 1/21
90118 9000	2538	screw plug M25 for Ex-Zone 1/21
90119 9000	2539	cable gland M25 with blanking plug for Ex-Zone 1/21
90259 9000	KS25 G EX	breathing gland M25 for Ex-Zone 1/21
90000 0002	DS 15A P	ceiling rail (1 pair) galvanised steel with 2 M8 screws
90032 0002	DS 15AV P	ceiling rail (1 pair) stainless steel 1.4571 with 2 M8 screws
90037 0004	RO84 112 A P	Pipe clamp (1 pair) stainless steel material 1.4571 1 1/2" with support and 4 M8 screws also for pole mounting
90038 0004	RO84 2 A P	Pipe clamp (1 pair) stainless steel material 1.4571 1 2" with support and 4 M8 screws also for pole mounting
26000 0008	WW 26 L P	wall mounting (1 pair) galvanised steel 55° with 2 M8 screws long version
26000 0002	WW 26/30 P	wall mounting (1 pair) galvanised steel 30° with 2 M8 screws
26000 0003	WW 26/45 P	wall mounting (1 pair) galvanised steel 45° with 2 M8 screws
12112 0013	PIK 121/32 W	
12112 0006	PIK 121/33 W	self-adhesive pictogram, emergency exit left viewing distance 30m
12112 0007	PIK 121/34 W	self-adhesive pictogram, emergency exit right viewing distance 30m
12112 0008	PIK 121/35 W	self-adhesive pictogram, emergency exit down viewing distance 30m