Explosion-protected LED emergency light fitting

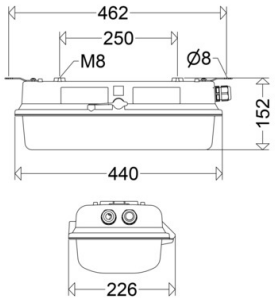
e856F L10/1/2 DIMDI

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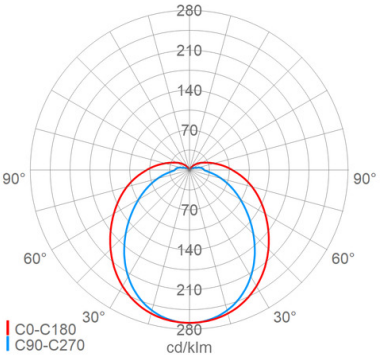
General product description

Compact explosion-protected LED emergency light fitting with central locking system for zone 1/21. 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 automatic monitoring according to EN 62034 and optical indication of the test results. Incorporated NiCd battery with electronic charger, deep discharge protection according to EN 61347-2-7, short circuit protected battery and reverse battery protection. Recharging time: 24h according to EN 60598-2-22.



General product benefits

- Security in case of emergency - instant light with maximum luminous flux
- multifunctional LED with coded indication of functions, states and potential faults of the electronic device or the battery
- automatic weekly function test
- automatic annual duration test, manual actuation possible at any time
- easy battery replacement due to plug connection
- 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
- 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)
- 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
- safety lighting of workplaces with particular risk as well as illumination / marking of escape and rescue routes

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Technical data

General

EAN/GTIN:	4041254439204

Explosion protection

EX-Zone:	1 , 21 , 2 , 22
EX-marking gas:	II 2 G Ex db eb [ib] 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:	self-contained (MA)
Luminaire luminous flux emergency operation:	560 lm
Ballast lumen factor:	53 %
Monitoring:	Self test
Ambient temperature (BS):	0 °C to +40 °C
For pictogram application:	Yes
Battery type:	NiMH
Operating time:	1 h
Special features:	Only for use on DALI monitoring / controllers with support for self-contained emergency luminaires (device type 1). Nominal ambient temperature range according to EN 60598-2-22; below 0° C emergency lighting duration may be restricted:

Key technical data

Light source:	LED
LED module standard:	Zhaga
Exchangeability:	light source with reflector and control gear replaceable by qualified person
Connected load:	11 W
Luminaire luminous flux:	1060 lm
Luminous efficacy:	96 lm/W
Colour temperature:	6500 K
Colour rendering (CRI):	≥ 80
Light colour:	865
Admissible ambient temperature T_a:	-30 °C to +40 °C

Key technical data

Control gear:	1 x ECG, Overload protection, Short circuit protection

Lighting control

Dimmable:	Yes
Dimming method:	DALI (DIMD)
Dimming range:	12 - 100 %
DALI-addresses per luminaire:	1
DALI-standard:	DT1, DT6

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>90000 h (@ Ta 25°C)

Electrical connection

Rated voltage:	220 - 240 V, 50/60 Hz
Terminal clamp:	Cage clamp, 6-polig, 1 - 4 mm²
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 with angle, Ceiling, Ceiling with angle, Rope, Wall
Operating position:	downwards radiation, forwards radiation, vertical, horizontal
Mounting:	2-point

Housing

Housing material:	Glass fibre reinforced polyester
Colour:	grey

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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:	5.40 kg

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Optional accessories / spare parts

Item no.	Item name	Item description
90222 9023	Akku NiCd 1,6Ah 6,0V Block 8020	NiCd accu, 6.0 V 1.6 Ah, Block (pay attention to the correct part number)
90222 9024	Akku NiCd 2,5Ah 6,0V Block 8021	NiCd accu, 6.0 V 2.5 Ah, Block (pay attention to the correct part number)
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