Explosion-protected LED emergency light fitting

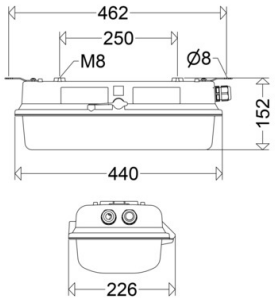
# e856F L20/3/2 DIMDI

**[ Item no. : 85605 0022 ]**



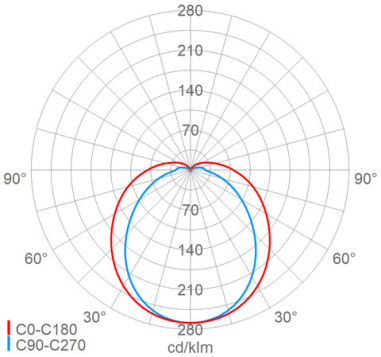
## General product description

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

# e856F L20/3/2 DIMDI

## [ Item no. : 85605 0022 ]

### Technical data

**General**

| | |
|---|---|
| EAN/GTIN: | 4041254439198 |

**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: | 260 lm |
| Ballast lumen factor: | 13 % |
| Monitoring: | Self test |
| Ambient temperature (BS): | 0 °C to +40 °C |
| For pictogram application: | Yes |
| Battery type: | NiMH |
| Operating time: | 3 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: | 19 W |
| Luminaire luminous flux: | 2050 lm |
| Luminous efficacy: | 108 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: | 29 - 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 |

# e856F L20/3/2 DIMDI

## [ Item no. : 85605 0022 ]

| | |
|---|---|
| **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: | 5.60 kg |

# e856F L20/3/2 DIMDI

**[ Item no. : 85605 0022 ]**

**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 |