Explosion-protected LED sheet steel light fitting

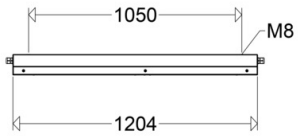
# e821 12L120 DV

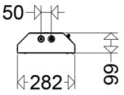
**[ Item no. : 82100 1053 ]**



### General product description

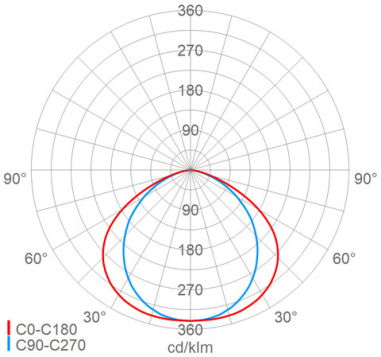
Explosion-protected LED steep roof light fitting for Ex-Zone 1/21. Powder-coated sheet steel housing, frameless hinged tempered safety glass pane, central locking system with opposite internal hinges, silicone gasket. Sheet steel reflector, white powder coated, hingeable and detachable, with encapsulated LED modules and frosted covers for glare limitation. Encapsulated ECG with overvoltage, overload and short circuit protection.




### General product benefits

- extremely flat and robust design
- innovative LED encapsulation with high transmission factor for least loss of light
- protective cover on the LED modules for protection against mechanical and electrostatic damage
- homogenous illumination due to frosted protective covers on the LED modules 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
- comfortable central locking system with internal hinges
- optional mounting frames and swivel arm mounting accessories
- sustainable, interchangeable components
- LABS-tested according to VDMA 24364-C2-L




### Applications

- hazardous areas zone 1 (gas) and zone 21 (dust)
- particularly clean rooms, paint shops and spray booths
- 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

# e821 12L120 DV

## [ Item no. : 82100 1053 ]

### Technical data

**General**

| | |
|---|---|
| EAN/GTIN: | 4041254341644 |

**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 T80°C Db |
| Primary ignition protection method: | eb |
| Temperature class: | T4 |
| Surface temperature: | T80°C |
| ATEX: | IBExU 20 ATEX 1017 |
| IECEx: | IECEx IBE 19.0032 |

**Key technical data**

| | |
|---|---|
| Light source: | LED |
| LED module standard: | Zhaga |
| Exchangeability: | light source with reflector and control gear replaceable by qualified person |
| Connected load: | 79 W |
| Luminaire luminous flux: | 11470 lm |
| Luminous efficacy: | 145 lm/W |
| Colour temperature: | 6500 K |
| Colour rendering (CRI): | ≥ 80 |
| Light colour: | 865 |
| Admissible ambient temperature $T_a$: | -30 °C to +55 °C |
| Control gear: | 1 x ECG, Overload protection, Short circuit protection |
| Energy efficiency class: | C |
| BEG-eligible (Germany): | Yes |

**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>80000 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: | 19 |
| CB B10/B13/B20: | 12/16/24 |
| CB C10/C13/C16/C20: | 19/25/32/39 |

**Electrical connection**

| | |
|---|---|
| Cable entries: | M25 (3x), screw plug (1x), cable gland (2x), Plastic, 8 - 17 mm |
| Through wiring (DV): | 5x2.5 mm² PVC |
| In-out wiring (RR): | Yes |

**Features/Certificates**

| | |
|---|---|
| Protection class: | I |
| IP rating: | IP65 |
| IK rating: | IK07 |
| Approval marks: | CE |

**Mounting**

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

**Housing**

| | |
|---|---|
| Housing material: | Steel |
| Varnished: | Yes |
| Colour: | grey, RAL 7035 |

**Cover**

| | |
|---|---|
| Cover type / material: | Pane (Safety glass) |
| Cover characteristic: | clear |
| Closure: | Hinges, Central locking (inside hex 5mm) (Stainless steel (1.4305)) |

**Dimension/Weight**

| | |
|---|---|
| Length: | 1204.00 mm |
| Width / Diameter: | 282.00 mm |
| Height: | 99.00 mm |
| Net weight: | 15.80 kg |

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**[ Item no. : 82100 1053 ]**

**Optional accessories / spare parts**

| Item no. | Item name | Item description |
|---|---|---|
| 18091 0020 | EB 82. 06L | |
| 18091 0021 | EB 82. 12L | |
| 18092 0001 | SWABF 181/182 P | wall and ceiling mounting (1 pair) painted steel swivel arm mounting with 2 M8 screws |
| 18092 0002 | SWABF 181/182 E P | wall and ceiling mounting (1 pair) stainless steel 1.4571 swivel arm mounting with 2 M8 screws |
| 82101 9001 | ABD 821 06 | spare safety glass |
| 82101 9002 | ABD 821 12 | spare safety glass |
| 90117 9006 | 2537 G | cable gland M25 with locknut for Ex-Zone 1/21 |
| 90119 9001 | 2539 G | cable gland M25 with blanking plug and locknut for Ex-Zone 1/21 |
| 90118 9006 | 2538 G | screw plug M25 with locknut for Ex-Zone 1/21 |
| 90001 0002 | H8V P | 2 suspension eyes with bolt M8, stainless steel |
| 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 |
| 26000 0011 | WDW P | wall and ceiling mounting (1 pair) painted steel with 2 M8 screws |
| 26000 0005 | WDW 45 P | wall and ceiling mounting (1 pair) painted steel 45° with 2 M8 screws |
| 26000 0006 | WDW 45 V P | wall and ceiling mounting (1 pair) stainless steel 45° with 2 M8 screws |