Explosion-protected LED sheet steel light fitting

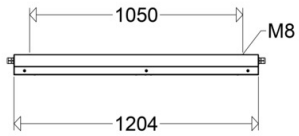
e821 12L60 DV

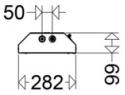
[Item no. : 82100 1051]



General product description

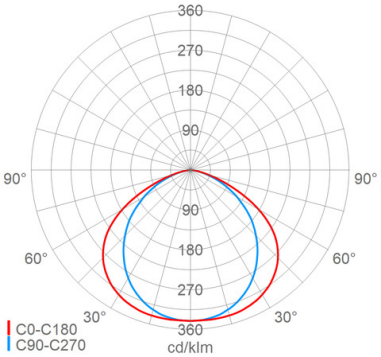
Explosion-protected LED steep roof light fitting for Ex-Zone 1/21. Powder-coated sheet steel housing, frameless hinged tempered safety glass pane, central locking system with opposite internal hinges, silicone gasket. Sheet steel reflector, white powder coated, hingeable and detachable, with encapsulated 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

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Technical data

General

EAN/GTIN:	4041254341668

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:	40 W
Luminaire luminous flux:	5900 lm
Luminous efficacy:	148 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:	15.10 kg

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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