

## Explosion-protected LED light fitting

## ExeLED 1

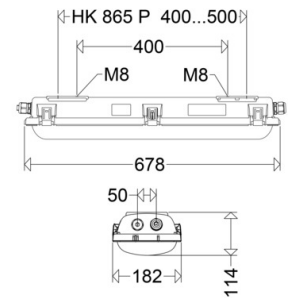
### e865F 06L42 DV 845

[ Item no. : 86500 1055 ]



#### General product description

Explosion-protected LED light fitting ExeLED 1 for zone 1/21. Glass fibre reinforced polyester housing, frosted cover made of polycarbonate with silicone gasket and stainless steel clips, two of them as safety clip. Steel reflector, varnished, carrying the encapsulated LED modules, clipped into the cover, removable as a unit. Encapsulated ECG with overvoltage, overload and short circuit protection. External mounting system for variable mounting (accessory).

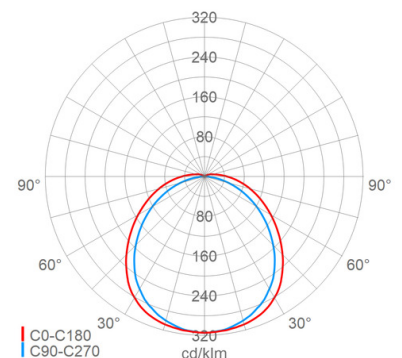


#### General product benefits

- innovative LED encapsulation with high transmission factor for least loss of light
- LED modules protected against mechanical and electrostatic damage by sandwich design of reflector and cover
- homogenous illumination due to frosted cover for comfortable perception of light and brilliant glare limitation
- high colour rendering index  $CRI \geq 80$ , according to the workplace guidelines suitable for nearly all plant locations
- FastFix mounting system - external mounting system for variable mounting distances and easy installation (accessory)
- ECG and reflector with LED modules replaceable by qualified personnel on-site

#### Applications

Hazardous areas zone 1 (gas) and zone 21 (dust), light fitting is not suitable for use in areas with permanently high humidity and short operation time, e.g. sewage plants and rainwater retention basins



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**Technical data****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 16 ATEX 1008
IECEX:	IECEX IBE 16.0010

**Key technical data**

Light source:	LED
LED module standard:	Zhaga
Connected load:	28 W
Luminaire luminous flux:	4120 lm
Luminous efficacy:	147 lm/W
Colour temperature:	4500 K
Colour rendering (CRI):	≥ 80
Light colour:	845
Admissible ambient temperature Ta:	-30 °C to +55 °C
Control gear:	1 x ECG, Overload protection , Short circuit protection

**Lighting technology**

Light distribution:	wide beam
Photobiological safety:	RG1

**Service life**

Service life LED:	L80B50>100000 h (@ Ta max), L80B50>100000 h (@ Ta 25°C), L90B50>85000 h (@ Ta 25°C)
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**Electrical connection**

Rated voltage:	220 - 240 V, 0 Hz, 50/60 Hz
Terminal clamp:	Cage clamp, 5-polig, 1 - 4 mm <sup>2</sup>
Max. no. (with CB B16):	19
CB B10/B13/B20/B25:	12/16/24/30
CB C10/C13/C16/C20/C25:	19/25/32/39/49
Cable entries:	M25 (3x), screw plug (1x), cable gland (2x), Plastic, 8 - 17 mm
Through wiring (DV):	5x2.5 mm <sup>2</sup> PVC
In-out wiring (RR):	Yes

**Housing**

Housing material:	Glass fibre reinforced polyester
Colour:	grey

**Cover**

Cover type/material:	Diffuser (PC)
Cover characteristic:	satined
Closure:	Clips (Stainless steel (1.4571))

**Mounting**

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

**Features/Certificates**

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

**Dimension/Weight**

Length:	678.00 mm
Width/Diameter:	182.00 mm
Height:	114.00 mm
Net weight:	4.70 kg
EAN/GTIN:	4041254389691

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**Optional accessories/spare parts**

Item no.	Item name	Item description
90055 9004	KE/KES VE10	locking clips (10 pcs.) with 2 safety clips
90055 9005	KES P	safety clips (1 pair)
90055 9007	KE/KES G2 VE10	locking clips (10 pcs.) with 2 safety clips
90055 9006	KES G2 P	safety clips (1 pair)
90117 9006	2537 G	cable gland M25 with locknut for Ex-Zone 1/21
90118 9006	2538 G	screw plug M25 with locknut for Ex-Zone 1/21
90259 9000	KS25 EX	breathing gland M25 for Ex-Zone 1/21
86501 9003	HK865 P	2 retaining clips for variable mounting distances
90001 0002	H8V P	2 suspension eyes with bolt M8, stainless steel
90000 0002	15A P	2 ceiling brackets, hot galvanized steel
90032 0002	15AV P	2 ceiling brackets, stainless steel
90037 0004	RO84 112 A P	2 pipe clamps 1 1/2", stainless steel, with support
90038 0004	RO84 2 A P	2 pipe clamps 2", stainless steel, with support
26000 0004	W 26 P	2 wall mounting angles, hot galvanized steel
26000 0002	W 26/30 P	2 wall mounting angles 30°, hot galvanized steel
26000 0003	W 26/45 P	2 wall mounting angles 45°, hot galvanized steel