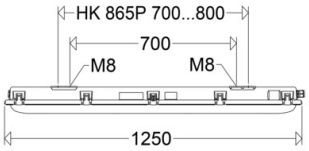
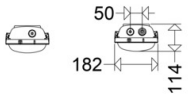
Explosion-protected LED light fitting

ExeLED 1
e865F 12L85
[Item no. : 86500 0003]

General product description

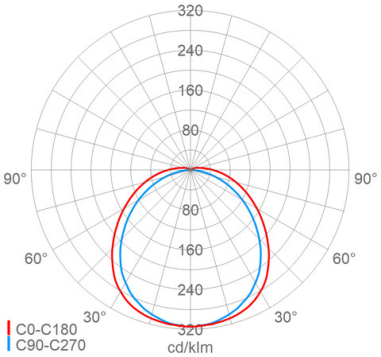
Explosion-protected LED light fitting ExeLED 1 for zone 1/21. Glass fibre reinforced polyester housing, frosted cover made of polycarbonate with silicone gasket and stainless steel clips, two of them as safety clip. Steel reflector, varnished, carrying the encapsulated LED modules, clipped into the cover,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





General product benefits

- for application in food industry areas, in accordance with IFS/BRC/VDMA standards, applicable without restrictions in plants, that have to fulfil the HACCP Concept
- 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≥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)
- sustainable, interchangeable components



Applications

- hazardous areas zone 1 (gas) and zone 21 (dust)
- food industry, food processing factories and suppliers to the food industry that have to fulfil IFS, BRC or HACCP standards or comparably strict requirements (e. g. production of food packaging). The light fitting is not sutiable for cleaning with cleaning and disinfection agents as well as for cleaning with high pressure cleaners
- 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:	4041254281919

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 1008X
IECEx:	IECEx IBE 16.0010X

Key technical data

Light source:	LED
LED module standard:	Zhaga
Exchangeability:	light source with reflector and control gear replaceable by qualified person
Connected load:	54 W
Luminaire luminous flux:	8620 lm
Luminous efficacy:	160 lm/W
Colour temperature:	6500 K
Colour rendering (CRI):	≥ 80
Light colour:	865
Admissible ambient temperature T_a:	-30 °C to +50 °C
Control gear:	1 x ECG, Overload protection, Short circuit protection
Energy efficiency class:	C
BEG-eligible (Germany):	Yes

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>80000 h (@ Ta 25°C)

Electrical connection

Rated voltage:	220 - 240 V, 0 Hz, 50/60 Hz
Terminal clamp:	Cage clamp, 3-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 (3x), screw plug (1x), cable gland (2x), Plastic, 8 - 17 mm

Electrical connection

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):	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

Housing

Housing material:	Glass fibre reinforced polyester
Colour:	grey

Cover

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

Dimension/Weight

Length:	1250.00 mm
Width / Diameter:	182.00 mm
Height:	114.00 mm
Net weight:	7.00 kg

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Optional accessories / spare parts

Item no.	Item name	Item description
86601 9014	ABD 8652F	cover PC satined
86601 9001	ABD 8654F	cover PC satined
86601 9000	ABD 8654	cover PC clear
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
90119 9001	2539 G	cable gland M25 with blanking plug and locknut for Ex-Zone 1/21
90259 9000	KS25 G EX	breathing gland M25 for Ex-Zone 1/21
86501 9003	HK 865 P	wall and ceiling mounting (1 pair) stainless steel 1.4310 for variable mounting in indoor areas
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
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