

ExeLED 1

LED-Light Fitting for Ex-Zone 1/21

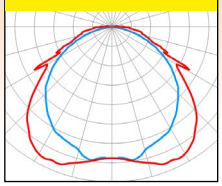
Series e865...

Applications:
Hazardous locations of zones 1/2 (gas) and 21/22 (dust).

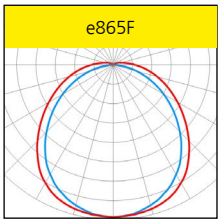
Design:
Housing: Glass fibre reinforced polyester resin.
Cover: Injected polycarbonate, frosted (**F**) or clear, silicone gasket.
Closure: Stainless steel clips (**KE**), two of them as safety clip (**KES**), to be opened with screwdriver only.
Reflector: Sheet Steel, painted, carrying the encapsulated LED-modules, clipped into the cover, removable as a unit.
Connection: 3 poles up to 4 mm².
Cable entries: 3 entries M25 x 1.5, (2 glands - one of them is plugged)
Standard: Facing downwards or forwards.
Mechanical installation:
Mounting accessories see spare parts/ accessories.

Note:
This light fitting is not suitable for application in areas with permanent high humidity in combination with only short periods of operation, such as sewage or stormwater retention tanks or water treatment plants.

e865



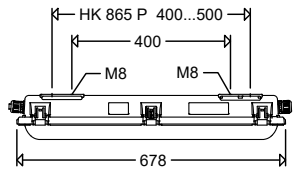
e865F



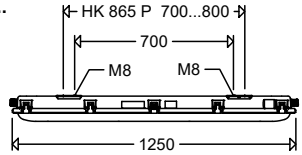
Technical Data:
LED: Line modules appr. 6,500 K, CRI > 80, service life L_{80} > 100,000 h at max. ambient temperature, L_{90} > 85,000 h (06L..) at 25 °C ambient temperature, L_{90} > 80,000 h (12L..) at 25 °C ambient temperature
ECG: 220-240 V AC/DC, 0 or 50/60 Hz, overvoltage, overload and short circuit protection

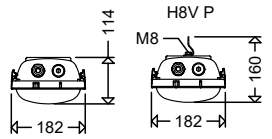
Options:
– 4,500K; light colour (**845**)
– through-wiring (**DV**)
– for higher ambient temperatures temperatures (**H70**), up to +70 °C
– only for explosive dust areas zone 21
– for connection to central emergency supply systems (**ZB**)
– for connection to central emergency supply systems with integrated monitoring module

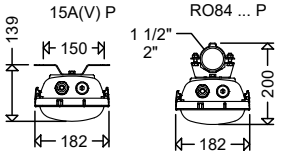
e865 06L..

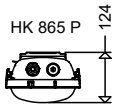


e865 12L..











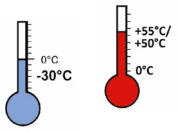
Pole mount with pipe clamps RO84 ....P

Product highlights:

- the light fittings are suitable for use in food areas **IFS**
- **innovative encapsulation** with high transmission rate
- LED-Modules protected from mechanical or electrostatic damages by sandwich design of reflector and cover
- **homogeneous illumination by using frosted diffusers (versions e865F..)** no individual light points visible, comfortable perception of light, brilliant glare limitation
- **high colour rendering index CRI > 80**, according to the workplace guide lines suitable for nearly all plant locations
- **FastFix mounting,** system for variable mounting distances and easy installation (retaining clips HK865 P) without opening the fitting
- **sustainable,** control gear and reflector with LED-modules replaceable by qualified personnel on-site
- the light fittings are suitable for use in food areas (**IFS/HACCP**), see chapter 9.1 in the „Technical Supplement"

e865...

II 2 G Ex eb mb q IIC T4 Gb | II 2 D Ex tb IIIC T80°C Db | IP66



EU-Type Examination Certificate:
ATEX: IBExU 16 ATEX 1008X
Other approvals:
IECEx: IECEx IBE 16.0010X
Ignition protection: eb
Marking:
II 2 G Ex eb mb q IIC T4 Gb (Zone1)
II 2 D Ex tb IIIC T80°C Db (Zone 21)

Rated voltage: 220-240 V AC/DC, 0 or 50/60 Hz.
Permissible ambient temperature:
-30 °C up to see article table
The values apply to versions with through-wiring.

Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Cover frosted	Cover clear	Ta max [°C]	Substitute for *	Weight [kg] (without packing material)
86500 0050	**e865F 06L22**	15	2.170	145	•		55	2 x 18W	4,6
86500 0051	**e865F 06L42**	28	4.120	147	•		55	2 x 36W	4,7
86500 0052	**e865F 06L60**	40	5.700	143	•		50	2 x 58W	4,7
86500 0001	**e865F 12L42**	28	4.360	156	•		55	2 x 36W	6,7
86500 0002	**e865F 12L60**	40	6.020	151	•		55	2 x 58W	6,7
86500 0003	**e865F 12L85**	54	8.620	160	•		50	> 2 x 58W	7,0
86500 0011	**e865 12L42**	28	4.590	164		•	55	2 x 36W	6,7
86500 0012	**e865 12L60**	40	6.320	158		•	55	2 x 58W	6,7
86500 0013	**e865 12L85**	54	9.010	167		•	50	> 2 x 58W	7,0

* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

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Looping the cable on one side:

All light fittings of series e865... have got 2 cable entries on one small side of the housing for cable looping instead of the through wiring system.

e865... DIMD

LIMAS Line | Ex | II 2 G Ex eb mb q IIC T4 Gb | II 2 D Ex tb IIIC T80°C Db | IP66

dimmable via DALI interface

Design:

Same as standard version, but with DALI2 compatible ECG and 2 additional clamping points, marked with DA, the polarity does not matter.

Compatible with **LIMAS Line BASIC/PRO** Light Management System.

Note:

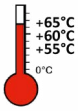
The conducting wires to the control input must be mains voltage stable and can be integrated in the connection cable.

Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Cover frosted	Cover clear	Ta max [°C]	Substitute for *	Weight [kg] (without packing material)
86500 0952	**e865F 06L42 DIMD**	28	4.120	147	•		55	2 x 36W	4,7
86500 0953	**e865F 06L60 DIMD**	40	5.700	143	•		50	2 x 58W	4,7
86500 0914	**e865F 12L42 DIMD**	28	4.360	156	•		55	2 x 36W	6,7
86500 0913	**e865F 12L60 DIMD**	40	6.020	151	•		55	2 x 58W	6,7
86500 0903	**e865F 12L85 DIMD**	54	8.620	160	•		50	> 2 x 58W	7,0

e865... H..

Ex | II 2 G Ex eb mb q IIC T4 Gb | II 2 D Ex tb IIIC T80°C Db | IP66

for high temperature [1)]



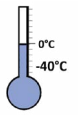
86500 0053	**e865F 06L22 H65**	15	2.170	145	•		65	2 x 18W	4,6
86500 0054	**e865F 06L42 H60**	28	4.120	147	•		60	2 x 36W	4,7
86500 0055	**e865F 06L60 H55**	40	5.700	143	•		55	2 x 58W	4,7
86500 0910	**e865F 12L42 H65**	28	4.360	156	•		65	2 x 36W	6,7
86500 0902	**e865F 12L60 H65**	40	6.020	151	•		65	2 x 58W	6,7

NEW

e865... T40

Ex | II 2 G Ex eb mb q IIC T4 Gb | II 2 D Ex tb IIIC T80°C Db | IP66

for low ambient temperatures down to -40°C



86500 0065	**e865F 06L22 T40**	15	2.170	145	•		55	2 x 18W	4,6
86500 0066	**e865F 06L42 T40**	28	4.120	147	•		55	2 x 36W	4,7
86500 0023	**e865F 12L42 T40**	28	4.360	156	•		55	2 x 36W	6,7
86500 0024	**e865F 12L60 T40**	40	6.020	151	•		55	2 x 58W	6,7

* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

[1)] through-wiring or looping the cable is not permissible.

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