

# ExeLED 1

## LED-Light Fitting for Ex-Zone 1/2/1

### 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 mm<sup>2</sup>.

**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.

#### Technical Data:

**LED:** Line modules with clear cover appr. 6,500K, with frosted cover appr. 6,000K, CRI > 80, service life L<sub>80</sub> > 100.000h at max. ambient temperature, L<sub>90</sub> > 85.000h (06L..) at 25°C ambient temperature, L<sub>90</sub> > 80.000h (12L..) at 25°C ambient temperature

**ECCG:** 220-240V AC/DC, 0 or 50/60Hz, overvoltage, overload and short circuit protection

#### Options:

- 4.500K, light colour 845

- for connection to group or central battery (light fittings of version ZB only) or emergency mains respectively

- for explosive dust atmospheres Zone 21 (**t868...**)

- for higher ambient temperatures up to +70°C

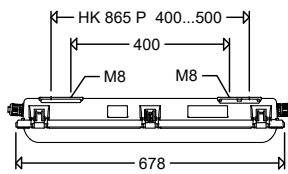
- with through wiring system

- with monitoring module for monitoring the individual light fitting

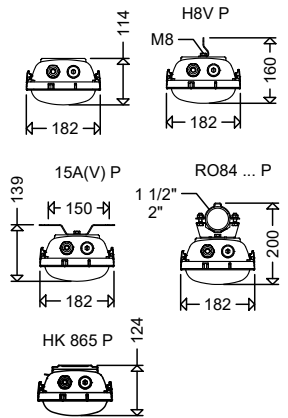
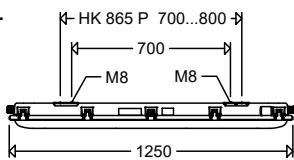
#### Note:

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.

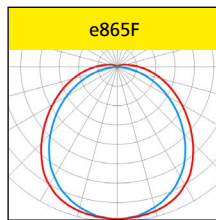
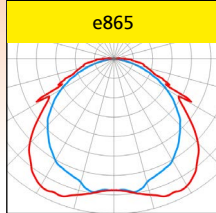
#### e865 06L..



#### 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“

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)
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### 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 1008

#### Other approvals:

IECEX: IECEX IBE 16.0010

UKCA: BAS21UKEX0579

Ignition protection: eb

#### Marking:

II 2 G Ex eb mb q IIC T4 Gb (Zone1)

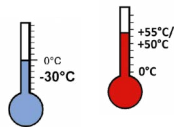
II 2 D Ex tb IIIC T80°C Db (Zone 21)

Rated voltage: 220-240V AC/DC, 0 or 50/60Hz.

#### Permissible ambient temperature:

-30°C up to see article table

The values given are for versions with through wiring.



86500 0050	<b>e865F 06L22</b>	15	2.170	145	•		55	2 x 18W	4,6
86500 0051	<b>e865F 06L42</b>	28	4.120	147	•		55	2 x 36W	4,7
86500 0052	<b>e865F 06L60</b>	40	5.700	143	•		50	2 x 58W	4,7
86500 0001	<b>e865F 12L42</b>	28	4.360	156	•		55	2 x 36W	6,7
86500 0002	<b>e865F 12L60</b>	40	6.020	151	•		55	2 x 58W	6,7
86500 0003	<b>e865F 12L85</b>	54	8.620	160	•		50	> 2 x 58W	7,0
86500 0011	<b>e865 12L42</b>	28	4.590	164		•	55	2 x 36W	6,7
86500 0012	<b>e865 12L60</b>	40	6.320	158		•	55	2 x 58W	6,7
86500 0013	<b>e865 12L85</b>	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.

Properties, limitations and details for controlling LED-light fittings:

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).

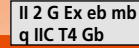


#### Looping the cable on one side:

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.

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)
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## e865... DIMD



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.

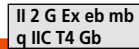
Compatible with LIMAS Line BASIC/PRO Light Management System.

#### Note:

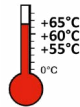
The conducting wires to the control input must be mains voltage stable and can be integrated in the connection cable.

86500 0952	<b>e865F 06L42 DIMD</b>	28	4.120	147	•		55	2 x 36W	4,7
86500 0953	<b>e865F 06L60 DIMD</b>	40	5.700	143	•		50	2 x 58W	4,7
86500 0914	<b>e865F 12L42 DIMD</b>	28	4.360	156	•		55	2 x 36W	6,7
86500 0913	<b>e865F 12L60 DIMD</b>	40	6.020	151	•		55	2 x 58W	6,7
86500 0903	<b>e865F 12L85 DIMD</b>	54	8.620	160	•		50	> 2 x 58W	7,0

## e865... H..



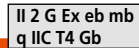
for high temperature <sup>1)</sup>



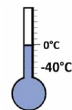
86500 0053	<b>e865F 06L22 H65</b>	15	2.170	145	•		65	2 x 18W	4,6
86500 0054	<b>e865F 06L42 H60</b>	28	4.120	147	•		60	2 x 36W	4,7
86500 0055	<b>e865F 06L60 H55</b>	40	5.700	143	•		55	2 x 58W	4,7
86500 0910	<b>e865F 12L42 H65</b>	28	4.360	156	•		65	2 x 36W	6,7
86500 0902	<b>e865F 12L60 H65</b>	40	6.020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

NEW

## e865... T40



for low ambient temperatures down to -40°C



86500 0065	<b>e865F 06L22 T40</b>	15	2.170	145	•		55	2 x 18W	4,6
86500 0066	<b>e865F 06L42 T40</b>	28	4.120	147	•		55	2 x 36W	4,7
86500 0023	<b>e865F 12L42 T40</b>	28	4.360	156	•		55	2 x 36W	6,7
86500 0024	<b>e865F 12L60 T40</b>	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.

<sup>1)</sup> through-wiring or looping the cable is not permissible.

## Accessories / Spare Parts

Article No.	Type	
<b>Spare diffusers</b>		
86601 9001	<b>ABD 8654F</b>	cover, frosted PC diffuser, for e864 12 ..., e865 12..., nD866 12..., nD867 12 ...
86601 9014	<b>ABD 8652F</b>	cover, frosted PC diffuser, for e864 06 ..., e865 06 ..., nD866 06 ..., nD867 06 ...
86601 9000	<b>ABD 8654</b>	cover, diffuser PC clear, for e864 12 ..., e865 12 ..., nD866 12 ..., nD867 12 ...
<b>Fasteners</b>		
90055 9004	<b>KE/KES VE10</b>	stainless steel, incl. 2 safety clips (packing unit 10 pcs.) see picture on the left, for e 865 12L.. until year of manufacture 2020
90055 9005	<b>KES P</b>	1 pair of safety clips stainless steel for e865 12L.. until year of manufacture 2020
90055 9007	<b>KE/KES G2 VE10</b>	stainless steel, incl. 2 safety clips (packing unit 10 pcs.) see picture on the left, for e 865 12L.. from year of manufacture 2020 and for e 865 06L..
90055 9006	<b>KES G2 P</b>	1 pair of safety clips stainless steel for e865 12L.. from year of manufacture 2020 and for e865 06L..
<b>Glands/breather</b>		
90117 9006	<b>2537 G</b>	ex-protected plastic cable gland M25 x 1,5 with nut
90118 9006	<b>2538 G</b>	ex-protected plastic plug M25 x 1,5 with nut
90119 9001	<b>2539 G</b>	ex-protected plastic plug M25 x 1,5 with blanking plug and locknut
90259 9000	<b>KS25 EX</b>	ex-breather M25 x 1,5
<b>Mounting material</b>		
86501 9003	<b>HK 865 P</b>	2 retaining clips for variable mounting distances
90001 0002	<b>H8V P</b>	2 suspensions eyes with bolts, stainless steel
90000 0002	<b>15A P</b>	2 ceiling brackets, hot galvanized steel
90032 0002	<b>15AV P</b>	2 ceiling brackets, stainless steel
90037 0004	<b>RO84 112 A P</b>	2 pipe clamps 1 ½", stainless steel, with support also for pole mounting
90038 0004	<b>RO84 2 A P</b>	2 pipe clamps 2", stainless steel, with support also for pole mounting
26000 0008	<b>W 26 L P</b>	2 wall mounting angles, hot galvanized steel
26000 0002	<b>W 26/30 P</b>	2 wall mounting angles 30°, hot galvanized steel
26000 0003	<b>W 26/45 P</b>	2 wall mounting angles 45°, hot galvanized steel

### Fasteners

KE/KES VE10  
KES P

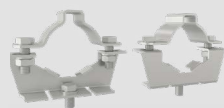


KE/KES G2 VE10  
KES G2 P



### Pipe clamps

2 pipe clamps 1 ½",  
stainless steel, with  
support



2 pipe clamps 2",  
stainless steel, with  
support

