

## Small LED-Light Fittings for Ex-Zone 1/2/1 Series e855...

### Applications:

Hazardous areas in Zones 1/2 (gas) and 21/22 (dust) as standard illumination for small rooms and above doors, i.e. as information or escape route lighting with pictograms.

### Design:

**Housing:** Glass fibre reinforced polyester resin.

**Diffuser:** Clear polycarbonate, frosted, detachable, silicone gasket.

**Reflector:** white, detachable, carrying

the encapsulated LED-modules and protection cover.

**Central locking system:** Operated by a hexagonal box spanner 13mm.

**Connection:** Prepared for looping the mains cable. Terminal L1+N+PE; up to 2,5mm<sup>2</sup>.

**Cable entries:** 2 entries M25 x 1.5 at one of the front side (2 cable glands, 1 with blanking plug).

**Mounting:** Side fixing brackets allow direct mounting on to walls or ceilings.

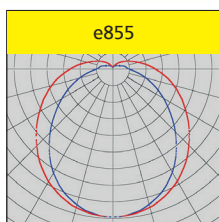
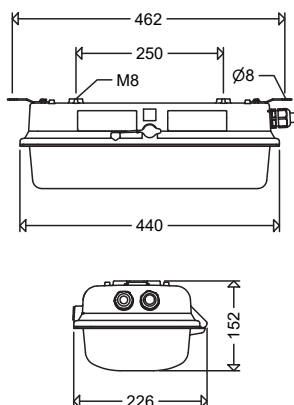
### Technical Data:

**LED:** Line modules appr. 6,500K, CRI > 80, service life L<sub>80</sub> > 100.000h at max. ambient temperature, L<sub>90</sub> > 95.000h at 25°C ambient temperature

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

### 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.



### Options:

- for connection to group or central battery (light fittings of version ZB only) or emergency mains respectively
- with monitoring module for monitoring the individual light fitting

- Control gear with dimming function via DALI2-compatible interface, suitable for the LIMAS Line Light Management System (DIMD)
- preparation for a 5-core looping

### Product highlights:

- extremely robust construction of housing and diffuser
- comfortable central locking mechanism for easy maintenance
- innovative encapsulation with high transmission rate
- LED protecting cover against ESD and mechanical damage
- homogeneous illumination due to frosted covers on the reflector for glare limitation, 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
- sustainable, control gear and reflector with LED-modules replaceable by qualified personnel on-site



| Article no. | Type | Connected load [W] | Luminous flux [lm] | Luminous efficacy [lm/W] | Suitable for pictogramm | Ta max [°C] | Substitute for * | Weight [kg] (without packing material) |
|-------------|------|--------------------|--------------------|--------------------------|-------------------------|-------------|------------------|--|
|-------------|------|--------------------|--------------------|--------------------------|-------------------------|-------------|------------------|--|

e855...



II 2 G Ex eb mb  
op is q II C T4 Gb

II 2 G Ex db eb mb  
op is q II C T4 Gb

II 2 D Ex op is tb  
IIIC T80°C Db

IP66



EU-Type Examination Certificate:

IBExU 17 ATEX 1132

Other approvals:

IECEx IBE 17.0037

Type of protection: eb (increased safety)

Marking:

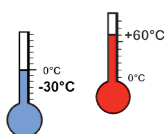
II 2 G Ex eb mb op is q II C T4 Gb (Zone 1)

II 2 D Ex op is tb IIIC T80°C Db (Zone 21)

Rated Voltage: 220-240V AC, 176-275V DC, 50/60Hz

Permissible ambient temperature:

-30°C up to see article table



|            |                |    |       |     |   |    |         |     |
|------------|----------------|----|-------|-----|---|----|---------|-----|
| 85500 0007 | e855F L05      | 5  | 510   | 102 | • | 60 | 1 x 8W  | 5,0 |
| 85500 0001 | e855F L10      | 10 | 1.060 | 106 |   | 60 | 2 x 8W  | 5,0 |
| 85500 0002 | e855F L20      | 18 | 2.050 | 114 |   | 60 | 2 x 18W | 5,1 |
| 85500 0003 | e855F L10 DIMD | 10 | 1.060 | 106 |   | 60 | 2 x 8W  | 5,0 |
| 85500 0004 | e855F L20 DIMD | 18 | 2.050 | 114 |   | 60 | 2 x 18W | 5,1 |

\* 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).



Photo: BASF



Self-adhesive pictograms for identification of escape routes acc. to DIN EN ISO 7010 and ASR A1.3.



121/33 W

.../34 W

.../35 W

Viewing distance = 30m

## Accessories / Spare Parts

| Article No.                          | Type         |  |
|--------------------------------------|--------------|--|
| <b>Spare diffuser</b>                |              |  |
| 85501 9001                           | ABD 855      | cover, diffuser PC frosted Silicone, for e855...       |
| <b>Cable entries/Glands/Breather</b> |              |  |
| 90117 9000                           | 2537         | ex-protected plastic cable gland M25 x 1,5             |
| 90118 9000                           | 2538         | ex-protected plastic plug M25 x 1,5                    |
| 90119 9000                           | 2539         | ex-protected plastic plug M25 x 1,5 with blanking plug |
| 90259 9000                           | KS25 EX      | ex-breather M25 x 1,5                                  |
| <b>Mounting material</b>             |              |  |
| 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 0008                           | W 26 L 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       |
| <b>Self-adhesive pictograms</b>      |              |  |
| 12112 0006                           | 121/33 W     | emergency exit to the left                             |
| 12112 0007                           | 121/34 W     | emergency exit to the right                            |
| 12112 0008                           | 121/35 W     | emergency exit below                                   |