

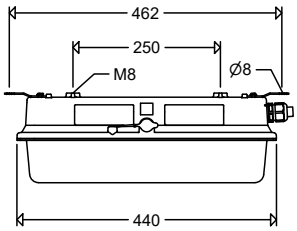
Small LED-Light Fittings for Ex-Zone 1/21
Series e855...

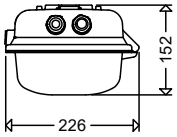
Applications:
Hazardous areas in Zones 1/2 (gas) and 21/22 (dust) as standard illumination for small rooms and above doors, i.e. as information or excape route lighting with pictograms.

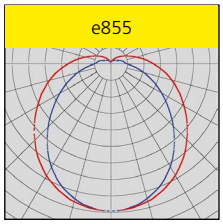
Design:
Housing: Glass fibre reinforced polyester resin.
Diffuser: Clear polycarbonate, frosted, detachable, silicone gasket.
Reflector: Sheet steel, painted white, detachable, carrying the encapsulated LED-modules and protection cover.
Central locking system: Operated by a hexagonal box spanner 13 mm.
Connection: Prepared for looping the mains cable. Terminal L1+N+PE; up to 2.5 mm².
Cable entries: 2 entries M25 x 1.5 at one of the front side (2 cable glands, 1 with blanking plug).
Mounting: Stainless steel side mounting brackets allow direct wall or ceiling mounting.

Technical Data:
LED: Line modules appr. 6,500 K, CRI > 80, service life L_{90} > 95,000 h at 25°C ambient temperature, service life L_{80} > 100,000 h at max. ambient temperature
ECG: 220-240 V AC/DC, 0 or 50/60 Hz, 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:
– in/out wiring, 5-pole
– for connection to central emergency supply systems (**ZB**)
– for connection to central emergency supply systems with integrated monitoring module
– dimming function via DALI-2-compatible interface, can be combined with LIMAS Line wired Light Management System (**DIMD**)

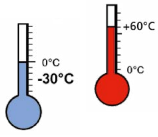
Product highlights:



- extremly 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
- control gear and reflector with LED-modules replaceable by qualified personnel on-site

e855...

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



EU-Type Examination Certificate:
IBExU 17 **ATEX** 1132X
Other approvals:
IECEx IBE 17.0037X
Type of protection: eb (increased safety)
Marking:
II 2 G Ex eb mb q IIC T4 Gb (Zone 1)
II 2 D Ex tb IIIC T80°C Db (Zone 21)

Rated Voltage: 220-240 V AC, 176-275 V DC, 50/60 Hz
Permissible ambient temperature:
-30 °C up to see article table

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)
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"

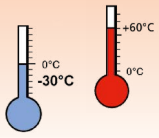
All data are correct at the time of printing. Actual technical data can be found under www.schuch.de.

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... ZB

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

for connection to central power supply unit



EU-Type Examination Certificate:
IBExU 17 **ATEX** 1132X
Other approvals:
IECEx IBE 17.0037X
Type of protection: eb (increased safety)
Marking:
II 2 G Ex eb mb q IIC T4 Gb (Zone 1)
II 2 D Ex tb IIIC T80°C Db (Zone 21)

Rated Voltage: 220-240 V AC, 176-275 V DC, 50/60 Hz
Permissible ambient temperature:
-30 °C up to see article table

85500 0009	**e855F L05 ZB**	5	510	102	•	60	1 x 8W	5,0

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


Photo: BASF



Type e855/... with pictogram PIK 121/33 W

Self-adhesive pictogram
green / transparent


PIK 121/32 W


PIK 121/33 W


PIK 121/34 W


PIK 121/35 W

For marking escape routes acc.to DIN EN ISO 7010 and ASR A1.3.

Viewing distance = 30 m

Accessories / Spare Parts

Article No.	Type	
Spare diffuser		
85501 9001	**ABD 855**	cover, diffuser PC frosted, silicone seal, for e855 ..., e856 ...
Cable entries/Glands/Breather		
90117 9006	**2537 G**	ex-protected plastic cable gland M25 x 1,5 with locknut
90118 9006	**2538 G**	ex-protected plastic plug M25 x 1,5 with locknut
90119 9000	**2539 G**	ex-protected plastic cable gland M25 x 1,5 with blanking plug and locknut
90259 9001	**KS25 G EX**	ex-breather M25 x 1,5
Mounting material		
90000 0002	**DS 15A P**	2 ceiling brackets, hot galvanized steel
90032 0002	**DS 15AV P**	2 ceiling brackets, stainless steel
90037 0004	**RO84 112 A P**	2 pipe clamps 1 ½", stainless steel, with support
90038 0004	**RO84 2 A P**	2 pipe clamps 2", stainless steel, with support
26000 0008	**WW 26 L P**	2 wall mounting angles, hot galvanized steel
26000 0002	**WW 26 30 P**	2 wall mounting angles 30°, hot galvanized steel
26000 0003	**WW 26 45 P**	2 wall mounting angles 45°, hot galvanized steel
Self-adhesive pictograms		
12112 0013	**PIK 121/32 W**	emergency exit upstairs
12112 0006	**PIK 121/33 W**	emergency exit to the left
12112 0007	**PIK 121/34 W**	emergency exit to the right
12112 0008	**PIK 121/35 W**	emergency exit below