







LFE / LFEE - P

LFE / LFEE-P series fluorescent light fittings are normally used in the chemical and petrochemical plants, off-shore platforms, refineries and any other industry where hazardous atmospheres (gas and combustible dust) are potentially present.

The LFE / LFEE-P range has been designed to meet the main requirements of illumination of working areas and to grant a safely evacuation of the plant in case of black-outs.





Function

The LFE-P series are used for the standard illumination while LFEE-P series are proposed with two different functions: "normal + emergency" or "only emergency" operation. The LFEE-P "only emergency operation" can be supplied with diffuser showing different safety indications (EXIT, arrows, warnings, etc.) available, on request, also in local languages. The wiring diagram of LFEE-P series is designed to provide a continuous power supply to the emergency unit so to grant its full functionality anytime. Besides a LED unit, well visible from outside, indicates the status of emergency unit through green/yellow/red colours to facilitate the maintenance activity.

The internal wiring is designed to allow any combination of loop-in loop-out installation.

The light fitting can be installed using different mounting types as described in dedicated section of this catalogue.

Construction

The materials used to manufacture the LFE / LFEE-P series have been studied to grant the maximum protection against the highly corrosive agents present in these industries:

- the body in glass fiber reinforced polyester (GRP), provides a very high mechanical strength together with a good resistance against the UV ray effects;
- the transparent diffuser in UV ray resistance polycarbonate has a self-extinguishing property according to Standard UL 94;
- the gasket on cover grants an IP66 protection level;
- the closing system in one single spot, apart from facilitating greatly the maintenance operations, is itself a guarantee of first-rate holding system since it provides a constant pressure of seals over all the perimeter of the diffuser;
- the internal electrical components are fully sealed to prevent any corrosive action that could cause electrical faults;
- the body has two cable entries M25x1.5 on one side and one cable entry M25x1.5 on the opposite side so to allow any loop-in loop-out installation. On request it's possible to have two cable entries M25x1.5 on both sides;
- all the light fittings are equipped, as standard, with one cable gland and two stopping plugs in polyamide, IECEx/Atex certified. Other materials or combinations are available as option;
- two kinds of lampholder: G13 for traditional T8 fluorescent tubes and G5 for new generation of T5 fluorescent tubes;
- electronic ballast, equipped with some self-protective functions, works with a multirange voltage and has a two-supply circuit design so to continue to energize one fluorescent tube in case the second one is faulty;
- internal circuit is protected by fuses so to minimize any possible problems caused by over-voltage during normal operation;



The light fitting is equipped with an interlock device mechanically connected with the internal Ex de safety switches, that automatically cut-off the power when the enclosure is opened.

Protection

certificate number: IECEx CML 17.0098X CML 17 ATEX 1210X

ambient temperature: -25°C +40°C -25°C +55°C

degree of protection: IP66

conformity: Directive ATEX 2014/34/EU

standards: IEC-EN60079-0 / IEC-EN60079-1 / IEC-EN60079-5

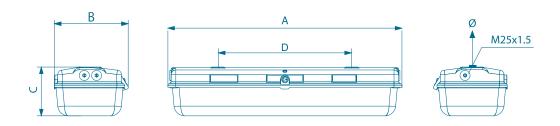
IEC-EN60079-7 / IEC-EN60079-18 / IEC-EN60079-31

category: suitable for Zone 1 – 2 (gas) and Zone 21 – 22 (dust)



LFE -P Explosion proof Fluorescent Light Fitting

	overall dimensions and weight				fixing dimensions		electrical data		
code	Α	В	C	kg	D	Ø	lampholder	power	voltage
LFE 114P	698	222	145	4.8	400	M8	G5 bi-pin	1 x 14 W	AC 110-240V 50/60Hz.
LFE 118P	698	222	145	4.8	400	M8	G13 bi-pin	1 x 18 W	AC 110-240V 50/60Hz.
LFE 128P	1310	222	145	7.7	800	M8	G5 bi-pin	1 x 28W	AC 110-240V 50/60Hz.
LFE 136P	1310	222	145	7.7	800	M8	G13 bi-pin	1 x 36 W	AC 110-240V 50/60Hz.
LFE 214P	698	222	145	5.0	400	M8	G5 bi-pin	2 x 14 W	AC 110-240V 50/60Hz.
LFE 218P	698	222	145	5.0	400	M8	G13 bi-pin	2 x 18 W	AC 110-240V 50/60Hz.
LFE 228P	1310	222	145	7.9	800	M8	G5 bi-pin	2 x 28W	AC 110-240V 50/60Hz.
LFE 236P	1310	222	145	7.9	800	M8	G13 bi-pin	2 x 36 W	AC 110-240V 50/60Hz.

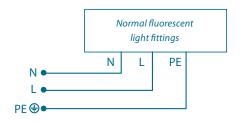


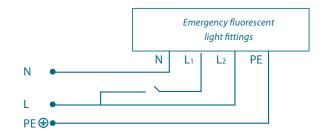
LFEE -P Explosion proof Emergency Fluorescent Light Fitting

	overall dimensions and weight				fixing dimensions		electrical data			
code	Α	В	C	kg	D	Ø	power normal	power emergency	emergency time	
LFEE 014P	698	222	145	6.6	400	M8	1 x 14 W	1 x 14 W	120 minutes	
LFEE 018P	698	222	145	6.6	400	M8	1 x 18 W	1 x 18 W	120 minutes	
LFEE 028P	1310	222	145	9.7	800	M8	1 x 28W	1 x 28W	120 minutes	
LFEE 036P	1310	222	145	9.7	800	M8	1 x 36 W	1 x 36 W	120 minutes	
LFEE 114P	698	222	145	6.6	400	M8	1 x 14 W	1 x 14 W	120 minutes	
LFEE 118P	698	222	145	6.6	400	M8	1 x 18 W	1 x 18 W	120 minutes	
LFEE 128P	1310	222	145	9.7	800	M8	1 x 28W	1 x 28W	120 minutes	
LFEE 136P	1310	222	145	9.7	800	M8	1 x 36 W	1 x 36 W	120 minutes	
LFEE 214P	698	222	145	6.8	400	M8	2 x 14 W	1 x 14 W	120 minutes	
LFEE 218P	698	222	145	6.8	400	M8	2 x 18 W	1 x 18 W	120 minutes	
LFEE 228P	1310	222	145	9.9	800	M8	2 x 28W	1 x 28W	120 minutes	
LFEE 236P	1310	222	145	9.9	800	M8	2 x 36 W	1 x 36 W	120 minutes	



Wiring Diagrams





Polar Diagrams

