# FLFE.L FLF.L

- Zone 1, 2, 21, 22
- With LED tubes
- Easy re-lamping
- Designed to last over time

"Ex e" terminal board housing

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Simplified maintenance





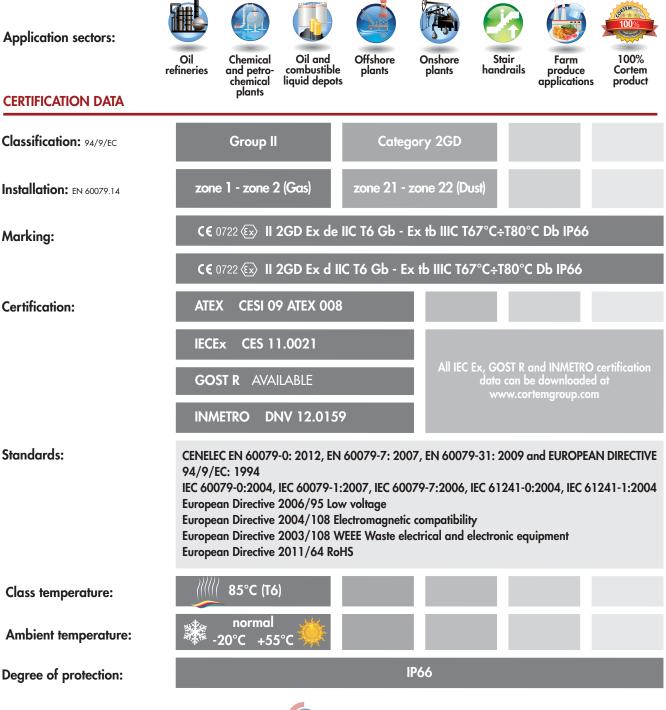


Ex dexecution type FLF..L



### FLFE...L, FLF...L series Lighting fixtures with LED tubes

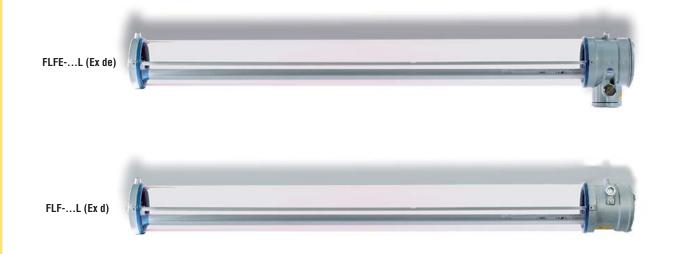
Lighting fixtures for LED tubes FLFE-...L (Ex de) and FLF-...L (Ex d) series have two low copper content aluminium heads fitted with G13 lamp holder, a tempered borosilicate glass tube that is resistant to changes in heat and a white painted aluminium reflector. The 'Ex de' lighting fixture features an "Ex e" terminal board housing that allows entry to the lamp with a cable gland with an "Ex" seal (normal) as specified in installation standard (EN/IEC 60079.14). The entry to the 'Ex d' lighting fixtures must be through an Ex "barrier" cable gland (sealed) or, in the case of a conduit system, with an EYS, EZS series sealing fittings. The round cross section of the lamp provides a better "Cx" coefficient with less resistance to the wind and less accumulation of dust. For this reason, these units are recommended for use in hazardous places where climatic and environmental conditions are severe and as they require less maintenance thanks to a very high ageing index. As the electrical components are housed on a frame with guides, re-lamping is quick and efficient. The fact that the fixture is fitted with a glass tube as opposed to a plastic material, makes it more effective and with a longer lifespan.



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28

## FLFE...L, FLF...L series Lighting fixtures with LED tubes



#### **MECHANICAL FEATURES**

Body:	Low copper content aluminium alloy heads	
External tube:	Shock and high temperature resistant borosilicate glass	ORIGINAL PRODUCT
Gaskets:	Acid/hydrocarbon resistant NBR on covers	
Inner frame:	White painted aluminium that acts as reflector	
Bolts and screws:	Stainless steel	
Cap chain:	Stainless steel	
Mounting:	2 x M8 holes	
Entries:	2 x ISO M25 entries. Fixture kit with PLG2IB plug and REV2IB cable gland	
Coating:	Epoxy coating Ral 7035 (Light grey)	
Corrosion Resistance :	The STANDARD of the aluminium alloy used by Cortem has passed the tests standards EN60068-2-30 (hot/humid cycles) and EN60068-2-11 (salt mist	

#### **ELECTRICAL FEATURES**

Lamp holders:	Bi-pin G13
Rated voltage:	220/240 V AC
Rated frequency:	50/60 Hz
LED tubes:	11-22-31 W
Connection:	Direct to the terminal board L, N, Pe section 4 mm <sup>2</sup> with jumpers suitable for input/output
Wiring:	Silicone rubber cables with glass braid insulation for high temperatures

#### **ACCESSORIES AVAILABLE / SPECIAL REQUESTS**

Installation mounting brackets Stainless steel or galvanized steel guard with external aluminium protection External aluminium protection recommended for outdoor installations Re-lamping bracket for use on in-line lighting fixtures Cable gland: FGAB2NBK for armoured cable or FB2NBK for non-armoured cable (only for FLF...L)



## FLFE...L, FLF...L series Lighting fixtures with LED tubes

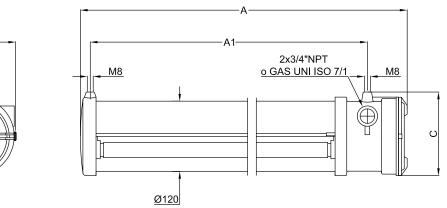
Ex do lighting fixt

Ex de lighting fixtures						
Code	Dimensions mm A A1 B C	N° of lamps	Power supply	Watt	Weight Kg	, internet
FLFE-111L	725 640 142 197	1	220/240 Vac	11	5,0	240x230x800
FLFE-211L	725 640 142 197	2	220/240 Vac	11	5,0	240x230x800
FLFE-122L	1325 1240 142 197	1	220/240 Vac	22	7,8	240x230x1410
FLFE-222L	1325 1240 142 197	2	220/240 Vac	22	7,8	240x230x1410
FLFE-131L	1625 1540 142 197	1	220/240 Vac	31	9,5	240x230x1700
FLFE-231L	1625 1540 142 197	2	220/240 Vac	31	9,5	240x230x1700

Dimensions in mm

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#### DIMENSIONAL DRAWING

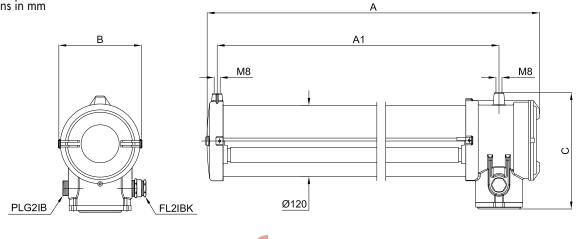


#### Ex d lighting fixtures

Codice	Dimensioni mm A A1 B C	Lampade n°	Alimentazione	Watt	Peso Kg	mm
FLF-111L	725 640 142 145	1	220/240 Vac	11	4,5	240x230x800
FLF-211L	725 640 142 145	2	220/240 Vac	11	4,5	240x230x800
FLF-122L	1325 1240 142 145	1	220/240 Vac	22	7,3	240x230x1410
FLF-222L	1325 1240 142 145	2	220/240 Vac	22	7,3	240x230x1410
FLF-131L	1625 1540 142 145	1	220/240 Vac	31	9,0	240x230x1700
FLF-231L	1625 1540 142 145	2	220/240 Vac	31	9,0	240x230x1700

#### Dimensions in mm

#### DIMENSIONAL DRAWING



# FLFE...L, FLF...L series Accessories and spare parts available

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
3	LED tubes G13 fitting	11 W 22 W 31 W	Contact our Sales Office for availability		RICAMBIO
M8	Tige	Length: 250 mm	Material: stainless steel	BRF8MIN/250	ACCESSORIO
Ø20	Type O eyebolt		Material: galvanised steel	GOF-8	
	Type U bracket		Material: galvanised steel	G-244	
	Type V bracket		Material: galvanised steel	G-263	
	Type D bracket		Material: galvanised steel	G-258	ACCESSOR REALITY
	Type P bracket		Material: galvanised steel	G-0480	
	Guard with Light blue/white		Stainless steel guard	G36-0529	
Haradaaa	painted 20/10 aluminium external protection		Galvanised steel guard	G36-0529G	
	External protection		Light blue/white painted 20/10 aluminium external protection	G36-568	
	Cable gland		For models and codes, visit www.cortemgroup.com	FB2NBK FGAB2NBK	ACCESSORIO
	Lamp holder	FLF1L	G13	STU3249-12/S	RICAMBIO
		FLF2L	250 V, 4 A	STU254/S	
	Re-lamping bracket with clip system for use on in-line lighting fixtures		Material: galvanised steel	G-0318 + G-0318/1	Accessioned



## Installation and mounting methods and photometric diagrams

