

FLF

- Zone 1, 2, 21, 22
- Excellent "CX" coefficient
- Easy re-lamping
- Designed to last over time

4 Joule shock resistant borosilicate glass



Simplified maintenance



Cable entry



Lighting fixtures with LED lamps



FLF series Lighting fixtures for fluorescent tubes and LED

FLF series lighting fixtures 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. Unlike the FLFE series, as specified in the appropriate installation standard (EN/IEC 60079-14), entry to the fixture 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. FLF series has been designed to facilitate and speed up maintenance operations. 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.

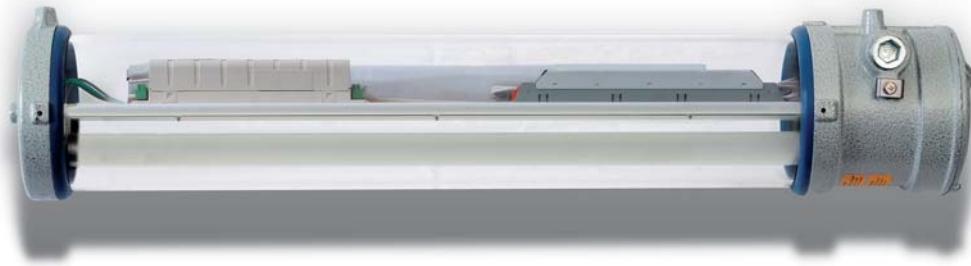
Application sectors:



CERTIFICATION DATA

Classification: 94/9/EC	Group II	Category 2GD		
Installation: EN 60079.14	zone 1 - zone 2 (Gas)	zone 21 - zone 22 (Dust)		
Marking:	CE 0722 Ex II 2GD Ex d IIC T6 - Ex tb IIIC T67°C-T80°C Db IP66			
Certification:	ATEX CESI 09 ATEX 008			
	IECEx CES 11.0021	All IEC Ex and GOST R certification data can be downloaded at www.cortemgroup.com		
	GOST R AVAILABLE			
Standards:	CENELEC EN60079-0: 2012, EN60079-1: 2007, EN60079-31: 2009 and EUROPEAN DIRECTIVE 94/9/EC: 1994 IEC60079-0:2004, IEC60079-1:2007, IEC60079-7:2006, IEC61241-0:2004, IEC61241-1:2004 European Directive 2006/95 Low voltage European Directive 2004/108 Electromagnetic compatibility European Directive 2003/108 WEEE Waste electrical and electronic equipment European Directive 2011/64 RoHS			
Class temperature:	85°C (T6)			
Ambient temperature:	normal -20°C +55°C	with emergency system -20°C +50°C		
Degree of protection:	IP66			

FLF series Lighting fixtures for fluorescent tubes and LED



ORIGINAL PRODUCT

MECHANICAL FEATURES

Body:	Low copper content aluminium alloy heads
External tube:	Shock and high temperature resistant borosilicate glass
Gaskets:	Acid/hydrocarbon resistant NBR on cover
Inner frame:	White painted aluminium that acts as reflector
Bolts and screws:	Stainless steel
Cap chain:	Stainless steel
Mounting:	Fixture pre-drilled with 2 x M8 holes
Entries:	2 x 3/4" threaded NPT. Fixture set with 1 x PLG2N plug
Coating:	Epoxy coating Ral 7035 (Light grey)
Corrosion Resistance:	The STANDARD of the aluminium alloy used by Cortem has passed the tests required by standards EN60068-2-30 (hot/humid cycles) and EN60068-2-11 (salt mist tests)

ELECTRICAL FEATURES

Lamp holders:	Bi-pin G13
Ballast:	Single channel electronic
Rated voltage:	230 V AC
Rated frequency:	50/60 Hz
Connection:	Direct to internal jumper connections for input/output L, N, Pe section 4 mm ²
Power factor:	0.98
Emergency unit:	Electronic inverter 110/230V, 50/60Hz, 18...58 W. Ni/Cd batteries, 4 Ah or 7 Ah, 6 V, battery charging monitored by high luminosity red LED (estimated LED lifespan 50,000 hours)
Wiring:	Silicone rubber cables with glass braid insulation for high temperatures
Safety:	Emergency safety switch fitted inside lighting fixture

ACCESSORIES AVAILABLE / SPECIAL REQUESTS

2 pin Ø26 fluorescent tubes model T8
 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
 Rated voltage: 277 V with double channel electronic ballast (code FLF-236EF4/**277**)
 110/240 V with double channel electronic ballast (code FLF-236EF4**S**)
 GAS UNI ISO 7/1 thread
 Can also be supplied in single tube normal operation version: FLF-118 / FLF-136 / FLF-158


Rated voltage: 24 Vdc only for normal operation (Code FLF-118/**24**)

Execution with LED tubes from 22 W. Rated voltage: 100/240 Vac (Code FLF-**122L** and FLF-**222L**). LED tubes included.

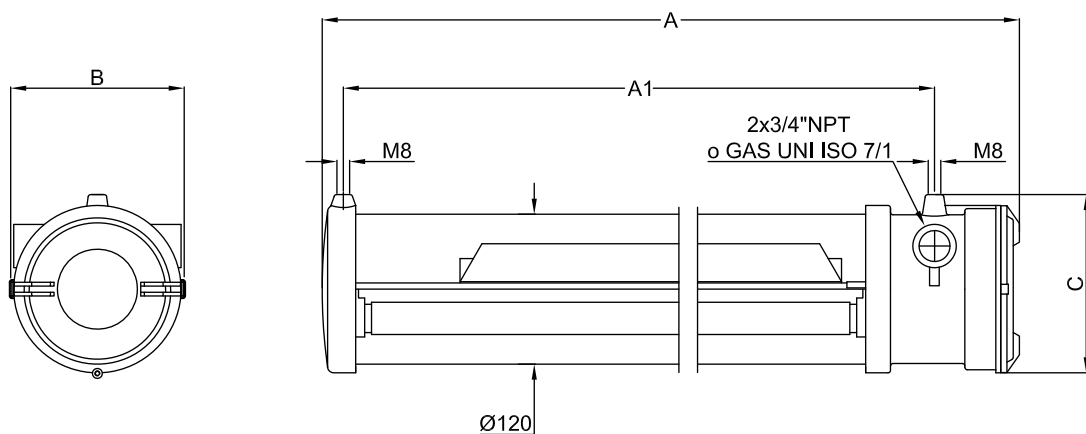
Execution for compact fluorescent tubes 4 pins only for normal operation (Code FLF-136**C** e FLF-236**C**).

NEW

Double lamp

Code	Dimensions mm				Operating type	N° of lamps	Power supply	Watt	Discharge time	Weight Kg	 mm
	A	A1	B	C							
FLF-218	725	640	142	145	-	2	230 V 50/60 Hz.	18	-	6,0	240x230x800
FLF-236	1325	1240	142	145	-	2	230 V 50/60 Hz.	36	-	9,4	240x230x1410
FLF-258	1625	1540	142	145	-	2	230 V 50/60 Hz.	58	-	11,6	240x230x1700
FLF-218EF4	725	640	142	145	normal + emergency	2	230 V 50/60 Hz.	18	120'	7.3	240x230x800
FLF-236EF4	1325	1240	142	145	normal + emergency	2	230 V 50/60 Hz.	36	90'	10.7	240x230x1410
FLF-258EF4	1625	1540	142	145	normal + emergency	2	230 V 50/60 Hz.	58	70'	12.8	240x230x1700
FLF-218EF7	725	640	142	145	normal + emergency	2	230 V 50/60 Hz.	18	200'	7.0	240x230x800
FLF-236EF7	1325	1240	142	145	normal + emergency	2	230 V 50/60 Hz.	36	180'	10.2	240x230x1410
FLF-258EF7	1625	1540	142	145	normal + emergency	2	230 V 50/60 Hz.	58	150'	12.5	240x230x1700

DIMENSIONAL DRAWING



Dimensions in mm