CURRENTLY IN PHASE-OUT

EVFD-L

- Zones 1, 2, 21, 22
- With Cortem LED strips
- Easy relamping
- Designed to last



Reflector in falvanized steel white painted



Opening of electrical parts housing



High mechanical strength





As their high mechanical resistance, EVFD LED lighting fixtures are recommended for use in all those hazardous areas where the atmosphere is constantly contaminated with fumes, gases and dusts. These units have been designed to provide the even distribution of light without taking up the limited vertical space available. The specially curved reflector and the transparency of the tempered glass tube combine to allow light to diffuse over a wide range and provide more pleasant, less tiring working conditions. All the electrical components are housed in an aluminium "enclosure" that can be easily removed from the fixture for maintenance work. Simply cleaning the glass tube ensures constant excellent illumination over time. As specified in the appropriate installation standard (EN/IEC 60079-14), the only "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 fitting.

Sectors for use:



Petroleum refineries



Chemical and petrochemical plants



Oil and combustible liquid depots



Offshore plants



Onshore plants



Stair handrails



produce



produced by applications Cortem

CERTIFICATION DATA

Degree of protection:

Classification: Group II Category 2GD zona 21 - zona 22 (Polveri) Installation: EN 60079.14 zona 1 - zona 2 (Gas) C€ 0722 ऒ II 2GD Ex db op is IIB T6 Gb - Ex tb op is IIIC T85°C Db IP66 Marking: C€ 0722 € II 2GD Ex db op is IIB+H, T6 Gb - Ex tb op is IIIC T85°C Db IP66 **ATEX EPT 17 ATEX 2880 X Certification: IECE**x IECEx SEV 18.0004 CENELEC EN 60079-0: 2012+A11:2013, EN 60079-1: 2014, EN 60079-31: 2014, EN 60079- 28: 2015 and EUROPEAN DIRECTIVE 2014/34/UE Standards: 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) **Standard** On request Ex db op is IIB+H2 Ambient temperature: Ex db op is IIB -20°Ċ +60°C -40°C +60°C

This equipment can be used in an environment containing explosive atmosphere and with the presence of hydrogen.

IP66





MECHANICAL FEATURES

Body: Low copper content aluminium alloy

External tube: Shock and high temperature resistant borosilicate glass
Seal: Silicone resin between the aluminium heads and the glass strips

Gaskets: Silicon acid/hydrocarbon resistant External reflector: White painted galvanised steel

Bolts and screws: Stainless steel

Mounting: 2 x galvanised steel brackets with Ø9 slots

Entries: $3 \times 3/4''$ threaded NPT. Fixture complete with $2 \times PLG2NA$ aluminium plugs

Coating: Polyester 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)

ORIGINAL PRODUCT

ELECTRICAL FEATURES

Ballast: Electronic

Rated voltage: 120-240 Vac (EVFD-1L) 100-277 Vac (EVFD-2L)

Rated frequency: 50/60 Hz

Connection: Direct to the terminal board L, N, Pe section 4 mm² terminal board suitable for through

wiring connection

Power factor: 0,98

Wiring: Silicone rubber cables with glass braid insulation for high temperatures

ACCESSORIES AVAILABLE / SPECIAL REQUESTS

Installation mounting brackets Stainless steel external reflector

Stainless steel guard

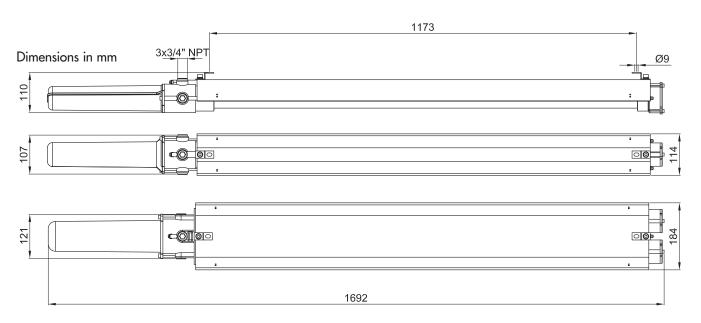
Re-lamping bracket for use on in-line lighting fixtures

Cable gland: NEVB2NB for armoured cable or NAVB2NB for non-armoured cable

GAS UNI ISO 7/1 thread

Code	Туре	N. Strips	Power supply	Lumen	Watt*	Weight kg	mm
EVFD-1L	1 x Cortem LED strips	1	120/240 Vac	4575	38	6,6	2090x120x155
EVFD-2L	2 x Cortem LED strips	2	100/277 Vac	9150	80	10,4	2090x120x155

DIMENSIONAL DRAWING



Features	EVFD-1L	EVFD-2L			
Power supply:	120-240 Vac	100-277 Vac			
Rated frequency:	50-60 Hz	50-60 Hz			
Power consumption:	38 W*	80 W*			
Connection:	Entrata cavi direttamente alla morsettiera L, N, PE. Sez max. 4 mm2, adatta per l'entra-esci				
Power factor:	>0,96*	>0,96*			
Rated current:	172 mA*	362 mA*			
EMC (electromagnetic compatibility):	EN 55015, EN 61547, IEC 61000-3-2, IEC 61000-3-3				
THD (total harmonic distortion):	20%	20%			
Over-voltage protection:	1 kV	6 kV			
Driver performances:	Protection Over-Voltage, Protection Over-Current, Protection Short-Circuit				
LED:	Luxeon				
Viewing angle:	120°	120°			
Colour temperature:	5000 K	5000 K			
CRI:	80	80			
Instant Restrike:	YES	YES			
Lumen:	4575 lm	9150 lm			
Maximum light intensity:	1602 cd	3204 cd			
Overall efficiency:	120 lm/W	114 lm/W			

^{*} Test carried out at 230Vac

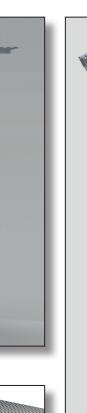
ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
M8	Tige	Length: 250 mm	Material: stainless steel	BRF8MIN/250	SPARE PART
©20	Type U eyebolt		Material: galvanised steel	GOF-8	SAARE PART
910 Ø10	Type D bracket complete with screws		Material: bracket: galvanised steel screws: stainless steel	G-0609	SARE PAR
910 Ø10	Type V bracket complete with screws		Material: bracket: galvanised steel screws: stainless steel	G-0610	ECCESSORS SERVICES
210	Type D bracket complete with screws		Material: bracket: galvanised steel screws: stainless steel	G-0611	CCCESCORD STATE PART
1 ½-	Type P bracket		Material: galvanised steel	G-0480	
	Cable gland		For models and codes, visit www.cortemgroup.com	NAVB2NB NEVB2NB	SPARE PART
	Guard	EVFD-1L	AISI 316L stainless steel Electro-polished	G136-0418S	eccisor Par
		EVFD-2L		G236-0418S	
	Stainless steel	EVFD-1L	Stainless steel	G136-455IN	
	reflector	EVFD-2L	plate	G236-455IN	
	Standard reflector	EVFD-1L	White painted	G136-455	STARE PART
		EVFD-2L	galvanised steel	G236-455	
	Power supply	EVFD-1L	120-240 Vac	LEDDEVFD1L	FAME PAST
	circuit	EVFD-2L	100-277 Vac	LEDDEVFD2L	
	IED -t-i	EVFD-1L	LED module with	LTT36500	STARE PART
	LED strip	EVFD-2L	contacts		

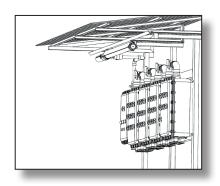
INSTALLATION AND MOUNTING METHODS

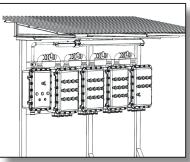
Control panel completely designed and manufactured by Cortem. The lighting fixture used according to customer specifications to optimize the power consumption is the LED lighting fixture EVFD-1L model.

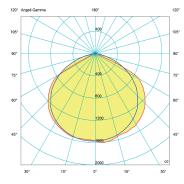
EVFD-2L series lighting fixture Typical pole-mounted installation with P-type brackets (model G-0480)

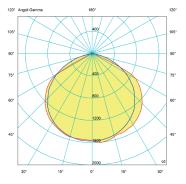












EVFD-1L Luminous flux: 4575 lm

EVFD-2L Luminous flux: 9150 lm

On Cortem Group web site you can download .LDT and .IES lighting data files for the design and simula- tion of lighting levels in 2D and 3D, rendering and ray tracing.

