

XLF series XENON obstruction lighting fixtures

XLF series Xenon obstruction lighting fixtures are ideal for chimneys, towers, smokestacks, bell towers, buildings, cranes, bridges, radio/television masts, cable car and power line pylons, wind turbines, radar and telecommunication antennas and specifically for use in the petrochemical and oil industries. Their small size, light weight, ease of installation and robustness mean that XLF series lights do not deteriorate over time especially with exposure in salty environments. They are also resistant to the wind and the deposit of industrial dusts thanks to the low profile and aerodynamic properties of the body.





Oil refineries



Chemical and petrochemical plants



Onshore plants



Offshore plants



Oil loading/ unloading jetties



Combustible liquid depots



Perimeter lighting



100% Cortem product

CERTIFICATION DATA

Classification:	Group II Category 2GD			
Installazione: EN 60079.14	zone 1 - zone 2 (Gas) zone 21 - zone 22 (Dust)			
Marking:	C€ 0722 ऒ II 2GD Ex d IIC T5 Gb; Ex tb IIIC Db IP66			
Certification:	ATEX CESI 03 ATEX 046			
	IEC Ex IECEx CES 12.0020 All IEC Ex certification data can be downloaded at www.cortemgroup.com			
Standards:	CENELEC EN 60079-0: 2009, EN 60079-1: 2007, EN 60079-7: 2007, EN 60079-31: 2009, EN 60598-1:2008+A11:2009, EN 60598-2-1:1989 and EUROPEAN DIRECTIVE 2014/34/UE European Directive 2004/108 Electromagnetic compatibility European Directive 2012/19/UE, 2002/96/CE, 2003/108/CE WEEE European Directive 2011/65/UE RoHS			
Class temperature:	100°C (T5)			
Ambient temperature:	\$\frac{1}{20}\circ \tau \circ \ta			
Degree of protection:	IP66			

XLF series XENON obstruction lighting fixtures





MECHANICAL FEATURES

Body: Low copper content aluminium alloy

Globe: Shock and temperature resistant borosilicate glass sealed with aluminium shade ring

Fresnel lens: Transparent polycarbonate, shock and UV resistant

Gaskets: Silicone acid/hydrocarbon resistant

Mounting: See "XLF-1-2 series dimensional drawings"

Bolts and screws: Stainless steel

Entries: $4 \times 3/4''$ NPT threaded entries.

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)

ELECTRICAL FEATURES

Lamp holder: E27 ceramic

Lamp: Stroboscopic (about 30 flash/min.) 6J or 16J Xenon with electronic module

(for further information see "EC SERIES ELECTRONIC MODULE CHARACTERISTICS")

Rated voltage: 24 VAC/DC, 110 VAC, 230 VAC

Rated frequency: 50/60 Hz

Connection: Direct to lamp holder L, N, Pe. Max section 4mm²

The double lighting fixtures (XLF-....2) comes supplied wired and sealed up to the junction box, the connection is made to the terminal board inside the terminal box L, N, Pe. Max section 4mm²

Power factor: 0.96

Wiring: Silicone rubber cables with glass braid protection against high temperatures

ACCESSORIES AVAILABLE / SPECIAL REQUESTS

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

Model for conduit or pendant mounting (code: XLFS-1V1101)

Special markings in 🔯 II 2GD Ex de IIC T5 Gb; Ex tb IIIC T.. Db IP66 . (code: XLFE-1V1101)

Ex or IP66 protected control panel with electronic modules

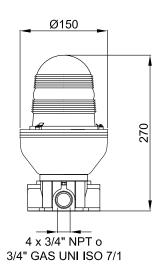
GAS UNI ISO 7/1 thread

XLF series selection chart

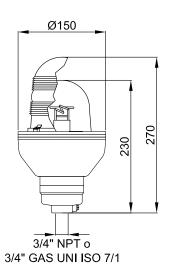
Code	Lamp	Colour	Lamp power xenon	Power supply	Weight Kg	mm
XLF-10241	1	NO FRESNEL	6 Joule	24V Ac Dc	2,15	160x150x330
XLF-10242	2	NO FRESNEL	6 Joule	24V Ac Dc	5,00	440x175x425
XLF-11101	1	NO FRESNEL	6 Joule	110V Ac	2,15	160x150x330
XLF-11102	2	NO FRESNEL	6 Joule	110V Ac	5,00	440x175x425
XLF-12301	1	NO FRESNEL	6 Joule	230V Ac	2,15	160x150x330
XLF-12302	2	NO FRESNEL	6 Joule	230V Ac	5,00	440x175x425
XLF-1R0241	1	RED	6 Joule	24V Ac Dc	2,40	160x150x330
XLF-1R0242	2	RED	6 Joule	24V Ac Dc	5,00	440x175x425
XLF-1R1101	1	RED	6 Joule	110V Ac	2,40	160x150x330
XLF-1R1102	2	RED	6 Joule	110V Ac	5,00	440x175x425
XLF-1R2301	1	RED	6 Joule	230V Ac	2,40	160x150x330
XLF-1R2302	2	RED	6 Joule	230V Ac	5,00	440x175x425
XLF-20241	1	NO FRESNEL	16 Joule	24V Ac Dc	2,15	160x150x330
XLF-20242	2	NO FRESNEL	16 Joule	24V Ac Dc	5,00	440x175x425
XLF-21101	1	NO FRESNEL	16 Joule	110V Ac	2,15	160x150x330
XLF-21102	2	NO FRESNEL	16 Joule	110V Ac	5,00	440x175x425
XLF-22301	1	NO FRESNEL	16 Joule	230V Ac	2,15	160x150x330
XLF-22302	2	NO FRESNEL	16 Joule	230V Ac	5,00	440x175x425
XLF-2R0241	1	RED	16 Joule	24V Ac Dc	2,40	160x150x330
XLF-2R0242	2	RED	16 Joule	24V Ac Dc	5,00	440x175x425
XLF-2R1101	1	RED	16 Joule	110V Ac	2,40	160x150x330
XLF-2R1102	2	RED	16 Joule	110V Ac	5,00	440x175x425
XLF-2R2301	1	RED	16 Joule	230V Ac	2,40	160x150x330
XLF-2R2302	2	RED	16 Joule	230V Ac	5,00	440x175x425

XLF series dimensional drawings

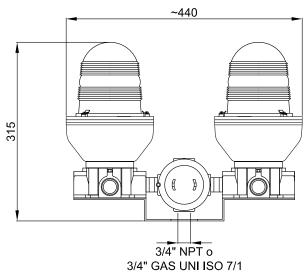
XLF-... Structure mounting

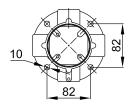


XLFS-... Conduit or pendant mounting



XLF-...2Double obstuction lighting fixture





Dimensions in mm



Close up of 6J Xenon lamp



Close up of 16J Xenon lamp

DON'T FORGET TO ORDER THE ACCESSORIES

Example: Type of lighting fixture + XLF-1R1101

Cable gland NEVB2NB

+ other ...see key



Accessories and spare parts available on request XLF series

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	Globe with shade ring		Borosilicate glass globe Aluminium ring shade ring	G50-0389FCM	SAME PART
	Polycarbonate Fresnel lens		Red	SR-1300	SAME PART
	O-ring		Material: silicone	OR-4512SH70S	SPARE PART
	Ceramic lamp holder	E27	250V 4A	PORT E-27/X	SPARE PART
	Structure mounting		4 x 3/4" entries	G-0214	SPANT PART
	Pendant mounting		1 x 3/4" entry	G-0213	SAME PART
	Stroboscopic light with integrated module	6 Joule	24V ac/dc	EC-06/624V	
		16 Joule		EC-06/24V	
		6 Joule	110-230V ac/dc	EC-06/6	SPARE PART
		16 Joule	230V ac	EC-06	
		16 Joule	110V ac	EC-06/110V	
	Protective cage only for XLF without Fresnel		Material: Electro-polished stainless steel	G50-0417	Accessoom SPARE PARE
	Cable gland		For models and codes, visit www.cortemgroup.com	NAVB2NB NEVB2NB	FARE PART

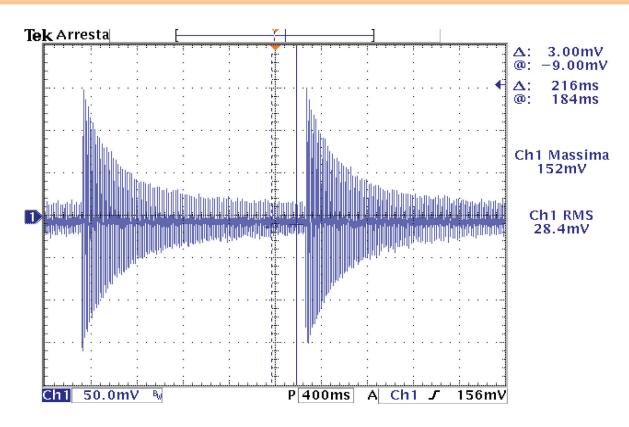
Features of EC series electronic modules for XLF

CODE	CODE DESCRIPTION		VOLTAGE
EC-06/110V	C-06/110V Stroboscopic light 110V 16J		110 V ac/dc
EC-06 Stroboscopic light 230V ac 16J		2	230 V ac/dc
EC-06/6 Stroboscopic light 110-230V ac/dc 6J		3 - 4	110-255 V ac/dc
EC-06/624V Stroboscopic light 24V ac/dc 6J		5	24 V ac/dc

The waveforms have been designed to measure each module's exact consumption.

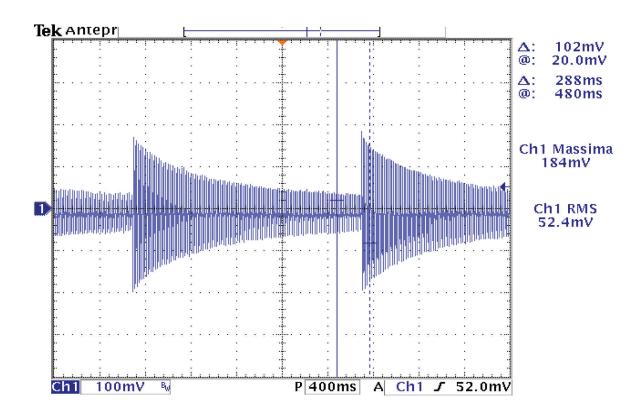
Tests have been carried out using a resistance of 1 Ohm connected in series with the power supply so as to make the voltage conversion immediate.

GRAPH 1 - 110 Vac

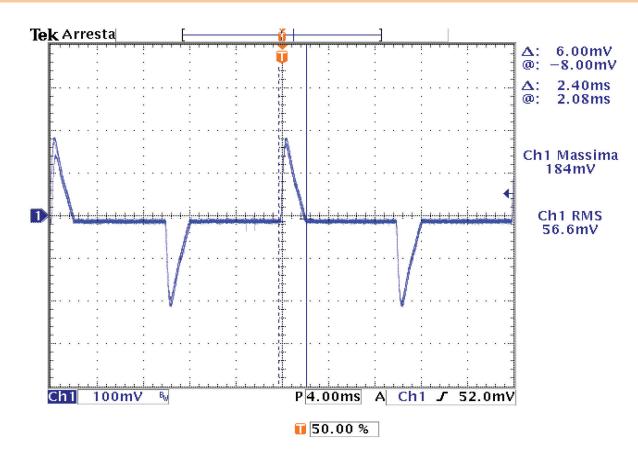


Features of EC series electronic modules for XLF

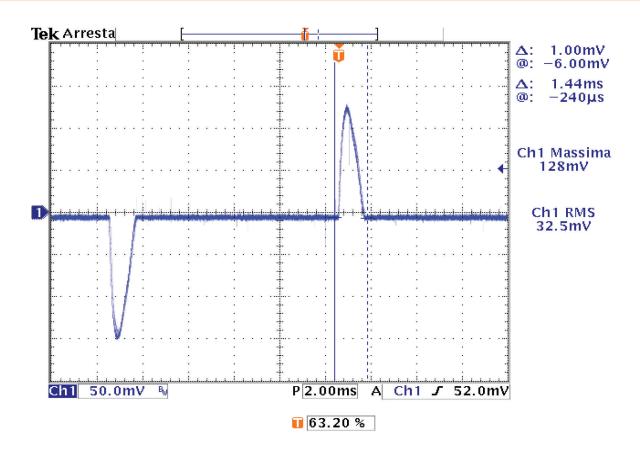
GRAPH 2 - 230 Vac



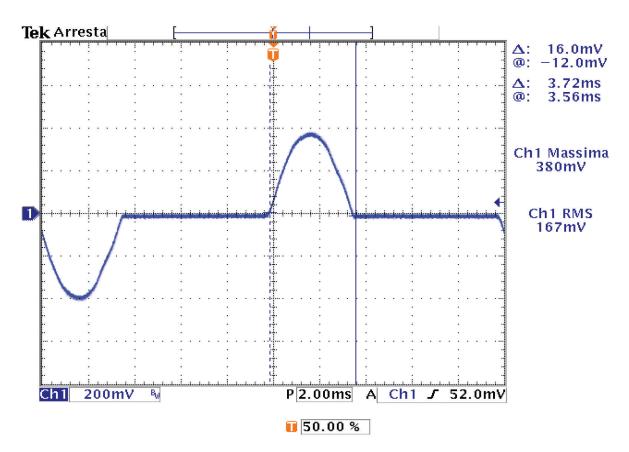
GRAPH 3 - 110 Vac



GRAPH 4 - 255 Vac



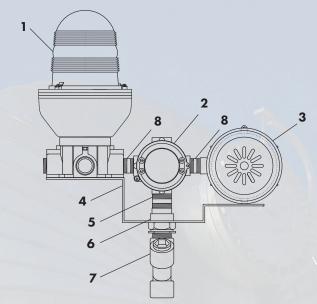
GRAPH 5 - 24 Vac



B.44

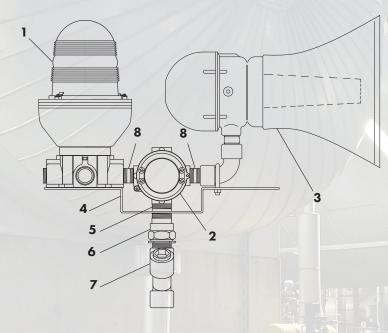
Example of XLF obstruction lighting fixture and ETS series siren installation

n	Description	Code
1	Obstruction lighting fixture	XLF-2R2301
2	Junction box	ST-26.1V
3	Rotating electromechanical siren	ETS60/109DB230V
4	Mounting plate	
5	Nipple	NP2G
6	3-piece union	RMF2G
7	Sealing fittings	EYS2
8	Sealed nipple	NPSF2



Example of XLF obstruction lighting fixture and ETH series siren installation

11				
n	1	Descrizione	Code	
1		Obstruction lighting fixture	XLF-2R2301	
2	Junction box		ST-26.1V	
3	Siren		ETS60/109DB230V	
4	Take 1	Mounting plate		
5	Nipple		NP2G	
6	3-piece union		RMF2G	
7	Sealing fittings		EYS2	
8		Sealed nipple	NPSF2	



Features of EC series electronic modules.. for XLF

• EC-05 Double XLF power supply circuit in which a 16J stroboscopic lamp is the main light and the other lamp is a spare.

Power supply: 230VAC Stroboscopic power: 16 J

• EC-10 Power supply unit for EC-... with 230 VAC power supply.

This unit has both automatic and manual controls as well as a test button.

• EC-13 Fixed synchroniser that turns on all the stroboscopic lamps wired with a 230 VAC power supply at the same time.