

XLF

- Zones 1, 2, 21, 22
- Obstruction warnings
- Stroboscopic lights
- Single or double fixtures
- Low wind resistance



Fixture without
Fresnel lens



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.

Application sectors:



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:

CE 0722 Ex 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:



-20°C +55°C



Special
-50°C +55°C

Degree of protection:

IP66



ORIGINAL PRODUCT

MECHANICAL FEATURES

Body:

Low copper content aluminium alloy

Globe:

Shock and temperature resistant borosilicate glass sealed with aluminium shade ring

Coloured diffuser:

Polycarbonate

Gaskets:

Silicone acid/hydrocarbon resistant

Mounting:

See "XLF-1-2 series dimensional drawings"

Bolts and screws:

Stainless steel

Entries:

4 x 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 junction 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

Other diffuser colours: orange, yellow, green and blue

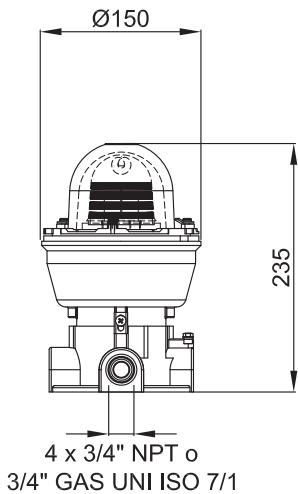
XLF series selection chart

| Code | Lamp | Colour | Lamp power xenon | Power supply | Weight Kg |  mm |
|------------|------|-------------|---------------------|--------------|--------------|--|
| XLF-10241 | 1 | NO DIFFUSER | 6 Joule | 24V Ac Dc | 2,15 | 160x150x330 |
| XLF-10242 | 2 | NO DIFFUSER | 6 Joule | 24V Ac Dc | 5,00 | 440x175x425 |
| XLF-11101 | 1 | NO DIFFUSER | 6 Joule | 110V Ac | 2,15 | 160x150x330 |
| XLF-11102 | 2 | NO DIFFUSER | 6 Joule | 110V Ac | 5,00 | 440x175x425 |
| XLF-12301 | 1 | NO DIFFUSER | 6 Joule | 230V Ac | 2,15 | 160x150x330 |
| XLF-12302 | 2 | NO DIFFUSER | 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 DIFFUSER | 16 Joule | 24V Ac Dc | 2,15 | 160x150x330 |
| XLF-20242 | 2 | NO DIFFUSER | 16 Joule | 24V Ac Dc | 5,00 | 440x175x425 |
| XLF-21101 | 1 | NO DIFFUSER | 16 Joule | 110V Ac | 2,15 | 160x150x330 |
| XLF-21102 | 2 | NO DIFFUSER | 16 Joule | 110V Ac | 5,00 | 440x175x425 |
| XLF-22301 | 1 | NO DIFFUSER | 16 Joule | 230V Ac | 2,15 | 160x150x330 |
| XLF-22302 | 2 | NO DIFFUSER | 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

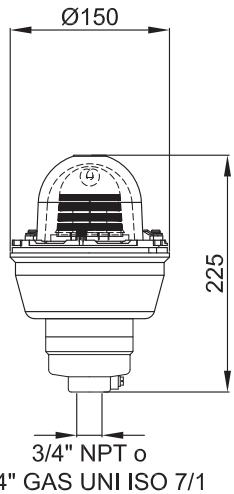
XLF...

Structure mounting



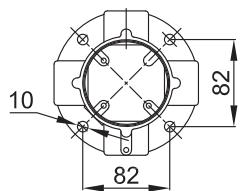
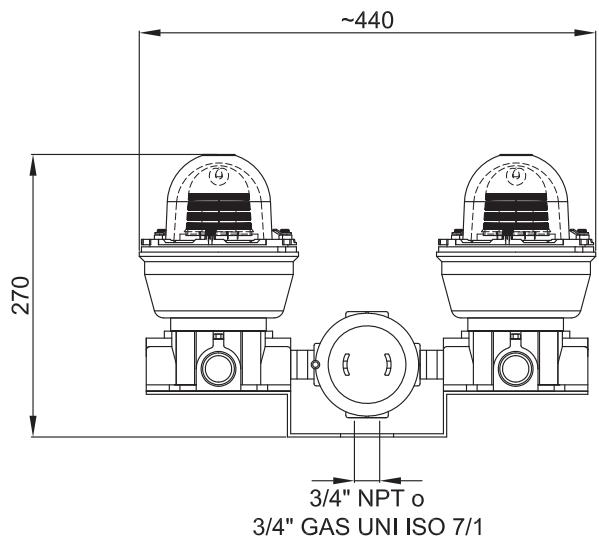
XLFS...

Conduit or
pendant mounting

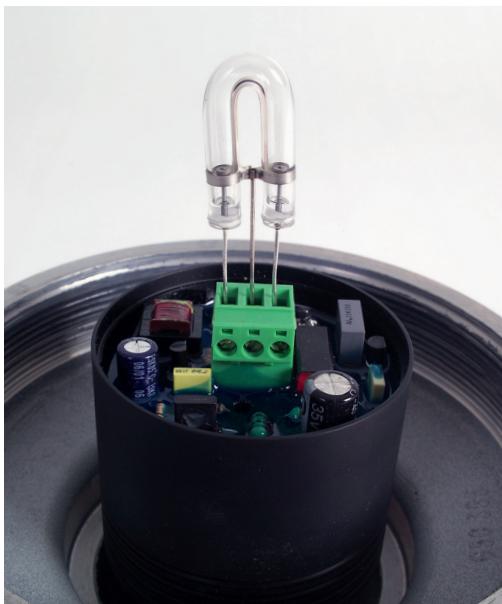


XLF...2

Double obstruction
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 |  |
|  | Polycarbonate diffuser | XLF-..A... | Orange | TRASP/A |  |
| | | XLF-..R... | Red | TRASP/R | |
| | | XLF-..V... | Green | TRASP/V | |
| | | XLF-..G... | Yellow | TRASP/G | |
| | | XLF-..B... | Blue | TRASP/BL | |
|  | O-ring | | Material: silicone | OR-4512SH70S |  |
|  | Ceramic lamp holder | E27 | 250V 4A | PORT E-27/X |  |
|  | Structure mounting | | 4 x 3/4" entries | G-0214 |  |
|  | Pendant mounting | | 1 x 3/4" entry | G-0213 |  |
|  | 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 | |
| | | 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 |  |
|  | Cable gland | | For models and codes, visit www.cortemgroup.com | NAV B2NB NEV B2NB |  |

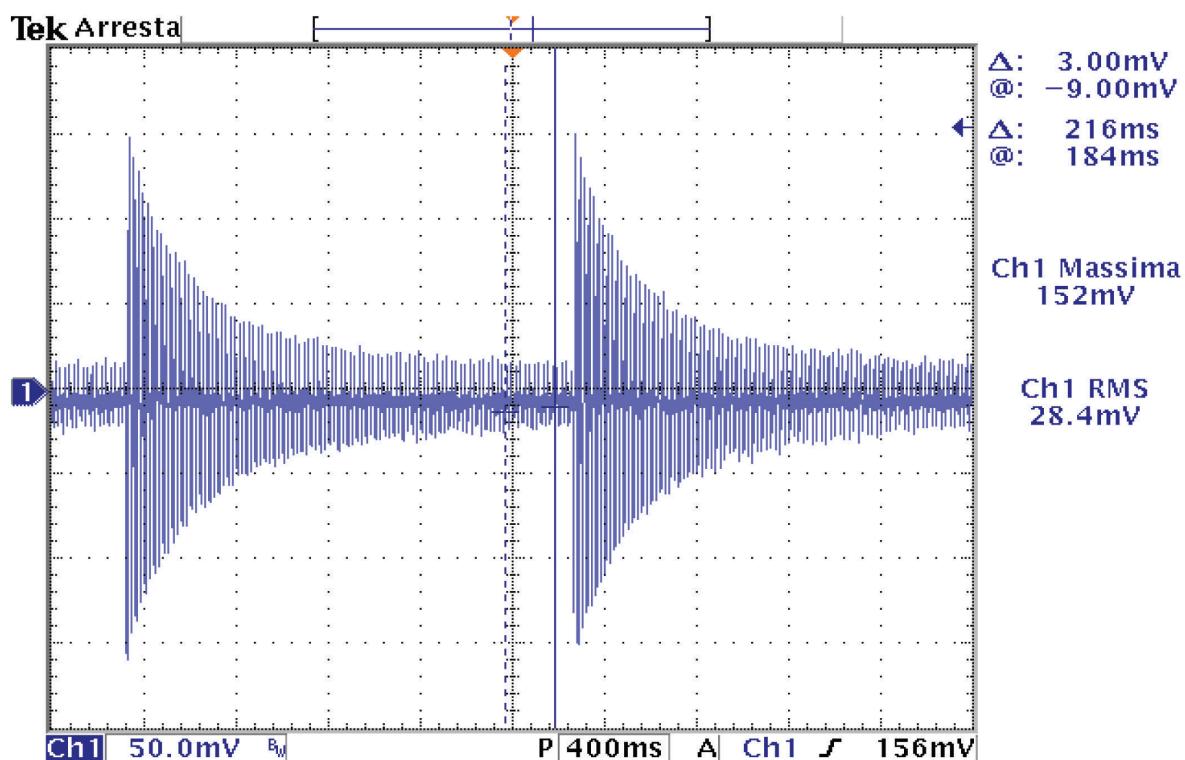
Features of EC series electronic modules for XLF

| CODE | DESCRIPTION | GRAPH | VOLTAGE |
|-------------------|--------------------------------------|-------|-----------------|
| EC-06/110V | Stroboscopic light 110V 16J | 1 | 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.

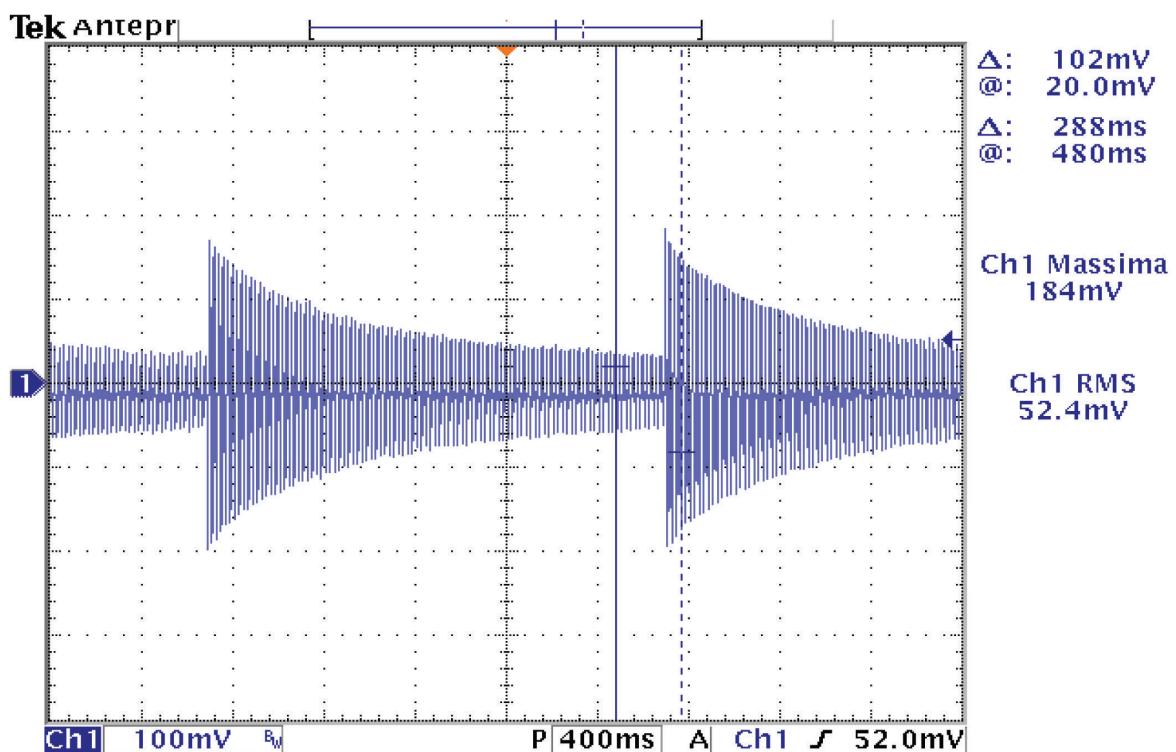
Tests have been carried out using a resistance of 1 Ohm connected in series with the power supply so as to make the voltage conversion immediate.

GRAPH 1 - 110 Vac

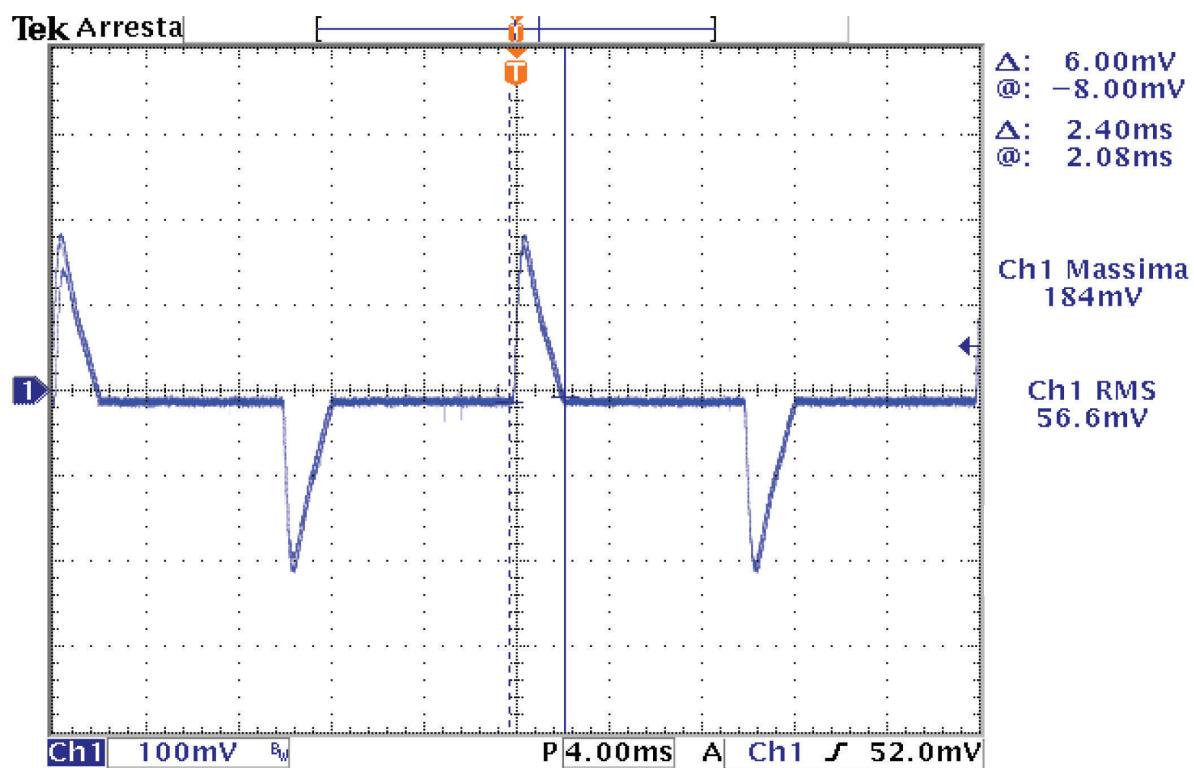


Features of EC series electronic modules for XLF

GRAPH 2 - 230 Vac



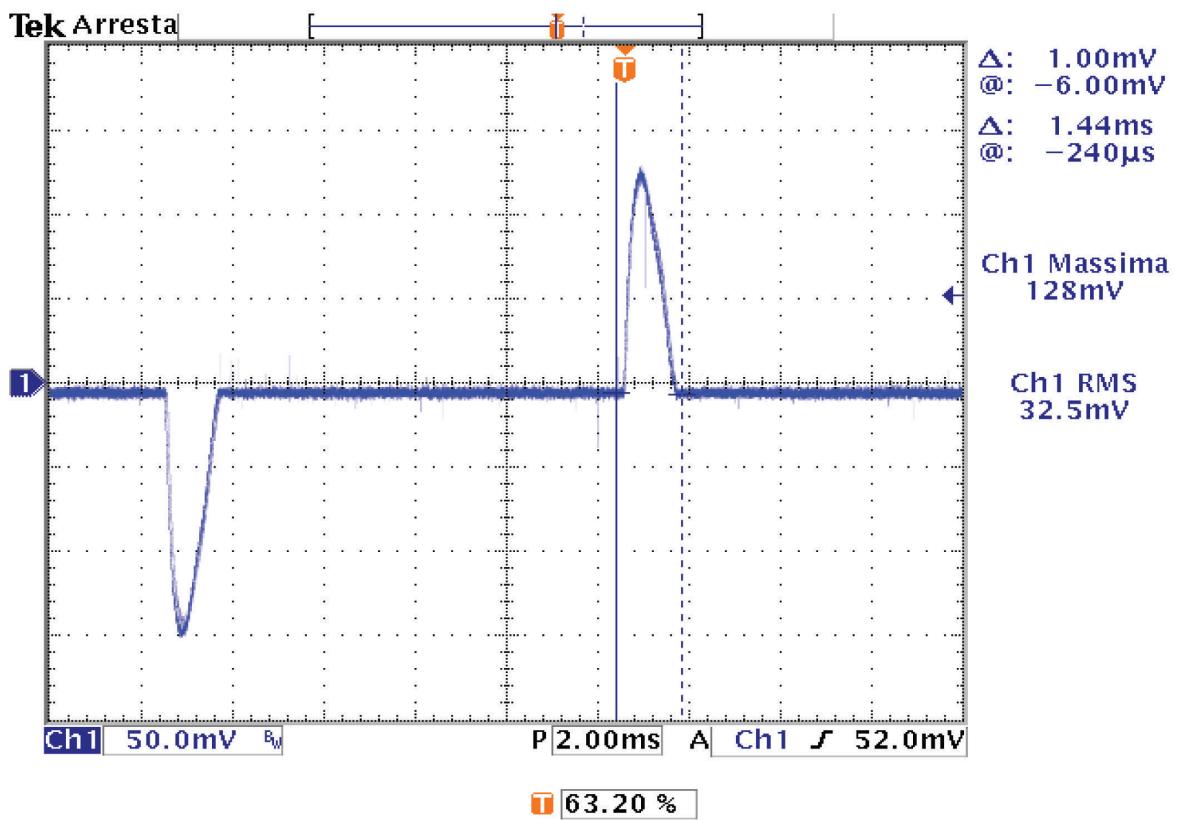
GRAPH 3 - 110 Vac



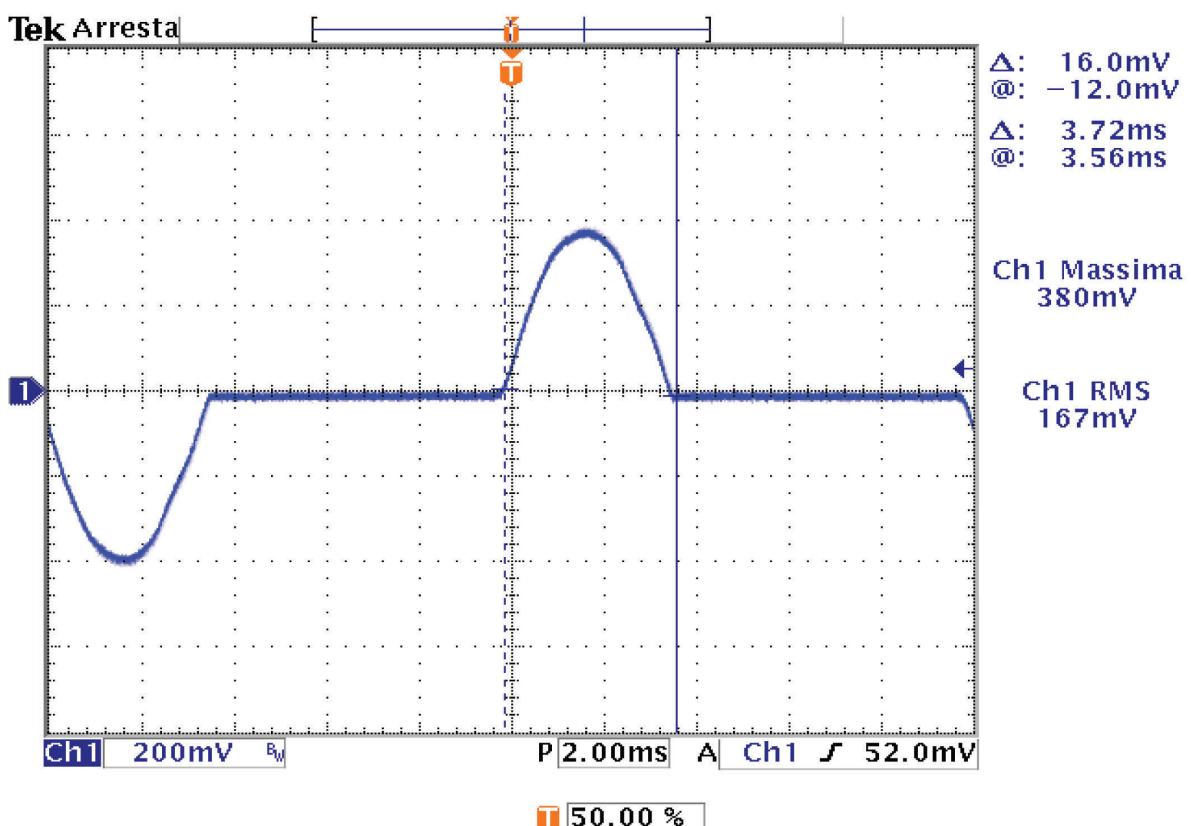
1 50.00 %

Features of EC series electronic modules for XLF

GRAPH 4 - 255 Vac



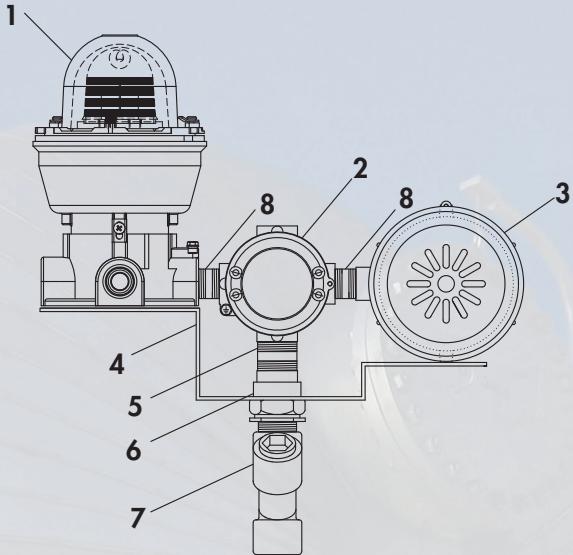
GRAPH 5 - 24 Vac



Installation and mounting methods XLF series

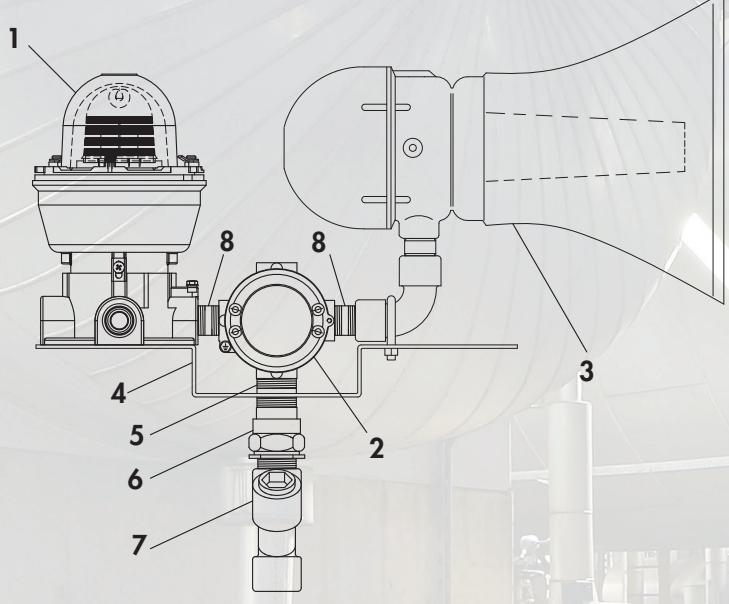
Example of XLF obstruction lighting fixture and ETS series siren installation

| 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

| n | Descrizione | Code |
|---|------------------------------|------------------------|
| 1 | Obstruction lighting fixture | XLF-2R2301 |
| 2 | Junction box | ST-26.1V |
| 3 | Siren | ETS60/109DB230V |
| 4 | 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: 16J
- 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.