



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx CES 12.0020 Issue No.:0 Certificate history:

Status: **Current**

Date of Issue: 2012-12-10 Page 1 of 3

Applicant: **CORTEM S.p.A.**
Via Aquileia 10
I - 34070 Villesse (GO)
Italy

Electrical Apparatus: **Obstruction signalling lights series XLF.. and XLFE..**
Optional accessory:

Type of Protection: **Flameproof enclosures 'd'; increased safety 'e'; Dust ignition protection 't'**

Marking: **XLF...**
Ex d IIC T6 or T5 Gb
Ex tb IIIC T52°C or T87°C Db
IP66
XLFE...
Ex de IIC T6 or T5 Gb
Ex tb IIIC T52°C+T87°C Db
IP66


Approved for issue on behalf of the IECEx
Certification Body:

Mirko Balaz

Position:

Head of IECEx CB

Signature:
(for printed version)


20-12-2012

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

CESI
Centro Elettrotecnico
Sperimentale Italiano S.p.A.
Via Rubattino 54
20134 Milano
Italy

CESI S.p.A.
Testing & Certification Division
Business Area Certification
Responsible

Fiorenzo Bregani



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Manufacturer: **CORTEM S.p.A.**
Via Aquileia 10
I - 34070 Villesse (GO)
Italy

Additional Manufacturing location
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:
IT/CES/ExTR12.0023/00

Quality Assessment Report:

IT/CES/QAR06.0002/06



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The obstruction signalling lights series XLF..., XLFE...are designed for use in hazardous locations, with presence of gases or inflammable vapours belonging to group IIC and/or with presence of combustible conductive dust group IIIC. The obstruction signalling lights are assembled in flameproof housing containing the Xenon lamp or the led lamp, complete with power supply equipment. The glass globe surrounding and protecting the lamp is mounted in an appropriate aluminium threaded ring, sealed by silicon resin and blocked by a threaded locking ring. The assembly globe-ring is screwed to the body.

The luminaries are assembled in two main executions:

- XLF...,

with "Ex d" protection mode, made by one single flameproof housing that contains the lamp holder with lamp and the electrical supply apparatus. XLF..., equipment can be supplied for ceiling mounting with four threaded hubs $\frac{3}{4}$ NPT or for suspended mounting with a constructive variant of cable inlet compartment having one threaded hub $\frac{3}{4}$ NPT on the bottom. In this last configuration (suspended mounting) the luminaries are marked **XLFS..**

- XLFE...,

with "Ex de" protection mode, made by two separate housings: one "Ex d" containing the lamp with supply equipment and the other "Ex e" housing contains terminal block. In this case the external connections are made via terminals located in the increased safety terminal enclosure. XLFE... equipment is supplied for ceiling mounting with two threaded hubs M25x1.5.

The cable bushing between the two housings is sealed by means of two component resin.

See annex for further description.

CONDITIONS OF CERTIFICATION: NO



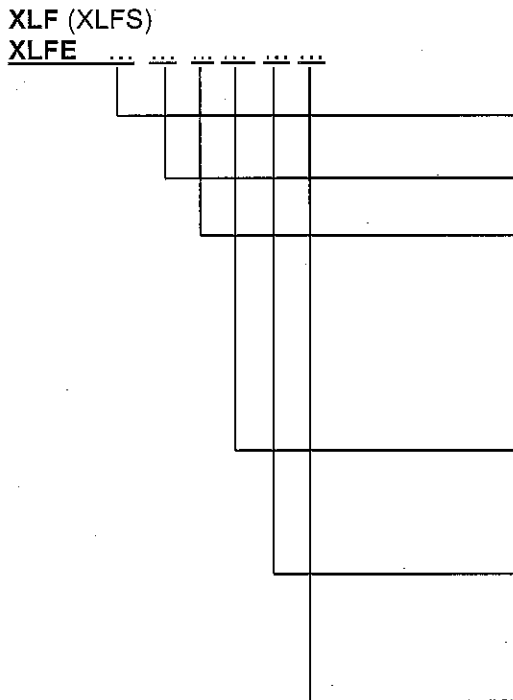
IECEX Certificate of Conformity

CESI

Prot: B2040019

Annex to certificate: IECEX CES 12.0020 Issue No.:0 of 2012-12-10
Applicant: CORTEM S.p.A., Via Aquileia 10,
 I - 34070 Villesse (GO), Italy
Electrical Apparatus: Obstruction signalling lights series XLF.. and XLFE..

Model Identification:



Code of series

Model: 1, 2, 3, 4

Color of light (or color of Fresnel for XLF-1 and XLF-2)

- B** – blue
- G** – yellow
- R** – red
- V** – green

Blank w/o fresnel (XLF-1, XLF-2 only)

Voltage : 012 = 12 V

277 = 277 V.

Operation (XLF-3, XLF-4 only)

- F** continuous light
- L** flashing light

Single or double lamp

(for XLF-4 single or double circuit)
 1 or 2

PAD B2040019 (1748051) - USO AZIENDALE

Electrical characteristics

Rating for different types of Obstruction signalling lights

Equipment	With Xenon lamp		With LED	
	XLF/XLFE - 1	XLF/XLFE - 2	XLF/XLFE - 3	XLF/XLFE - 4
Rated Voltage	230 Vac		260 Vac 12 Vdc	120 - 277 Vac 24 Vdc
Rated Power	25 W		20 W	10 W
Rated frequency	50-60 Hz			
Flash energy	5 - 6 J	10 - 16 J		
Ambient Temperature	- 20 ÷ +40 °C; - 20 ÷ +55 °C; - 50 ÷ +40 °C; - 5 0 ÷ +55 °C;			
Degree of protection	IP 66			



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Temperature class and maximum surface temperatures in function of the ambient temperature.

Equipment	Temperature class		Max. Surface Temperature.	
	Ta -20 + + 40 °C (-50 + + 40 °C)	Ta -20 + + 55 °C (-50 + + 55 °C)	Ta -20 + + 40 °C (-50 + + 40 °C)	Ta -20 + + 55 °C (-50 + + 55 °C)
XLF/XLFE-1	T6	T5	72	87
XLF/XLFE-2	T6	T5	72	87
XLF/XLFE-3	T6	T6	63	78
XLF/XLFE-4	T6	T6	52	67

Condition of installation

The conditions of the installation of the lighting fixtures are included within the safety instructions. In any case, the accessories used for cable entries into enclosures shall be subject of separate certification, suitable for type of protection Ex-d or Ex-e and Ex-tb and guarantee a minimum degree of protection IP 66 in compliance with the IEC 60529 Standard.

Warning label

"Use cable suitable for Tc 100°C"

"Do not open when energized. After de-energized delay 20 minutes before opening"