IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

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

Certificate No.:	**IECEx CML 19.0102X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 1	Issue 0 (2020-01-22)
Date of Issue:	2023-03-31		
Applicant:	**Cortem S.p.A** Via Aquileia 10 34070 Villesse Gorizia **Italy**		
Equipment:	**XLFE-MIB, XLFE-MIA & XLFE-LIB Signalling Luminaires**		
Optional accessory:			
Type of Protection:	**Flameproof, Increased Safety, dustproof**		
Marking:	Ex db eb IIC T4 Gb Ex tb IIIC T110°C Db -40°C to +40°C or Ex db eb IIC T4 Gb Ex tb IIIC T130°C Db -40°C to +60°C		

Approved for issue on behalf of the IECEx Certification Body:	**Ben Trafford**
Position:	**Certification Officer**
Signature: (for printed version)	
Date: (for printed version)	2023-03-31

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 www.iecex.com or use of this QR Code.

Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom

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Manufacturer: **Cortem S.p.A.**
Via Aquileia 10
34070 Villesse
Gorizia
Italy

Manufacturing locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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 Reports:

GB/CML/ExTR19.0129/00 GB/CML/ExTR23.0068/00

Quality Assessment Report:

IT/CES/QAR06.0002/16

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The XLFE-MIB, XLFE-MIA XLFE-LIB & XLFE-MIC Signalling Luminaires are designed for signalling of obstacles in high-risk areas for the presence of highly corrosive elements, combustible powders, flammable vapours and flammable gasses.

The equipment is cylindrical, with the body constructed from aluminium alloy and a cylindrical glass, sealed with resin. All models are composed from two parts: a terminal enclosure with types of protection increased safety (Ex e) and dust protection by enclosure (Ex t) and; light engine enclosure with types of protection flameproof ("Ex d) and dust protection by enclosure (Ex t). The separate enclosures are assembled with screws and the electrical connections between the two compartments are made through a certified bushing.

(see certifcate Annex for detailed description)

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Flameproof joints must not be repaired.
2. Use screws with property class ≥A2-70.
3. The device must be installed in order to avoid high mechanical risk of impact.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
- Introduction of XLFE-MIC Signalling Luminaires

- The removal of “op is” from the coding and removal of EN 60079-28 from the certificate, as the equipment no longer falls within its scope.

Annex:

Certificate Annex IECEx CML 19.0102X , Issue 1 (1).pdf

Annexe to: IECEx CML 19.0102X , Issue 1

Applicant: Cortem Group

Apparatus: XLFE-MIB, XLFE-MIA, XLFE-LIB & XLFE-MIC Signalling Luminaires

Description

The XLFE-MIB, XLFE-MIA XLFE-LIB & XLFE-MIC Signalling Luminaires are designed for signalling of obstacles in high-risk areas for the presence of highly corrosive elements, combustible powders, flammable vapours and flammable gasses.

The equipment is cylindrical, with the body constructed from aluminium alloy and a cylindrical glass, sealed with resin. All models are composed from two parts: a terminal enclosure with types of protection increased safety (Ex e) and dust protection by enclosure (Ex t) and; light engine enclosure with types of protection flameproof ("Ex d) and dust protection by enclosure (Ex t). The separate enclosures are assembled with screws and the electrical connections between the two compartments are made through a certified bushing.

Ratings

The equipment has the following ratings:

Model	Power	Voltage	Frequency	N LED
XLFE-LIB	6W	100~240VAC 9~32VDC	50/60 Hz	4
XLFE-MIA	60W	279.4~294.7 VDC	20 or 40 fpm	96
XLFE-MIB	30W	110~121.5 VDC	20 or 40 fpm	48
XLFE-MIC	72W	179..197.4 VDC	STEADY	84

Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db)

The equipment models have the following temperature class:

	Tamb			
	40°C	60°C	40°C	60°C
	T class	T class	Max Tsurface	Max Tsurface
XLFE-LIB	T6	T6	55°C	75°C
XLFE-MIB	T4	N/A	110°C	N/A
XLFE-MIB/1	T4	T4	110°C	130°C
XLFE-MIA	T6	T5	70°C	90°C
XLFE-MIC	T6	T5	62°C	8°C

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Conditions of Manufacture

i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.

ii. Each luminaire shall be subjected to the following routine overpressure test for at least 10 seconds, as required by EN 60079-1:2014 / IEC 60079-1:2014 Clause 16.1, at the following pressures:

   i. XLFE-MIB – 14.4 Bar
   ii. XLFE-MIA – 16.3 Bar
   iii. XLFE-LIB – 14.7 Bar
   iv. XLFE-MIC – 16.3 Bar

iii. An electric strength test shall be carried out on each luminaire. The test shall be carried out at a value as indicated below and applied between the supply conductors and the metal body of the luminaire in accordance with EN 60079-7:2015 / IEC 60079-7:2015 Ed 5.0 clause 7.1.

   i. XLFE-MIB – 1,500 V
   ii. XLFE-MIA – 1,590 V
   iii. XLFE-LIB – 1,500 V
   iv. XLFE-MIC – 1500 V

iv. The Cabur TPL4 terminals shall not be used with the XLFE-MIA model luminaire.

Specific Conditions of Use

i. Flameproof joints must not be repaired
ii. Use screws with property class ≥A2-70
iii. The device must be installed in order to avoid high mechanical risk of impact.

Components covered by Ex Certificates issued to older editions of Standards

None.