



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 INE 12.0018X issue No.: 0 Certificate history:
Status: **Current**
Date of Issue: **2012-06-06** Page 1 of 3

Applicant: **FEAM**
Via Mario Pagano, 3
I-20090 TREZZANO SUL NAVIGLIO (MI)
Italy

Electrical Apparatus: **Light fixture type EVO...**
Optional accessory:

Type of Protection: **d and tb**

Marking: Ex d IIC T6 Gb, Ex d IIC T5 Gb or Ex d IIC T3 Gb
Ex tb IIIC T85°C Db IP66, Ex tb IIIC T100°C Db IP66 or Ex tb IIIC T200°C Db IP66

Approved for issue on behalf of the IECEx
Certification Body:

Thierry HOUÉIX

Position:

Ex Certification Officer

Signature:
(for printed version)

Date:

2012-06-06



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](http://www.iecex.com).

Certificate issued by:

INERIS
Institut National de l'Environnement Industriel
et des Risques
BP n2
Parc Technologique ALATA
F-60550 Verneuil-En-Halatte
France

INERIS



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Manufacturer: **FEAM**
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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'

*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:

[FR/INE/ExTR12.0016/00](#)

Quality Assessment Report:

[IT/CES/QAR09.0003/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

These light fixture made in light alloy can be fitted with different types of lamp.
It consists to a boby closed by a screwed lid fitted with a window.

The enclosures gets the degrees of protection IP66 in accordance with IEC 60529.

CONDITIONS OF CERTIFICATION: YES as shown below:

The width of the flameproof joints is higher to those specified in tables of IEC 60079-1 standard.



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Annexe: IECEx INE 12.0018X_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

Characteristic of the lamps

Incandescent lamp

Maximum supply voltage : 230 V

Maximum power incandescent lamp : 100 W

Halogen Lamp

Maximum supply voltage : 230 V

Maximum power : 105 W

LED Lamp

Maximum supply voltage : 240 V

Maximum power : 12 W

This lighting fixture can be use in the following range ambient temperatures:

- -20°C to +40°C or -20°C to +60°C.
- -60°C to +40°C or -60°C to +60°C.

MARKING

Marking has to be readable and indelible; it has to include the following indications:

- FEAM
- I – 20090 Trezzano Sul Naviglio (MI)
- EVO...(*)
- IECEx INE 12.0018X
- (Serial number)
- Ex d IIC T (**) Gb
- Ex tb IIIC T (**) Db
- IP66
- ... °C < Tamb < ... °C (**)
- T.cable: (**)
- CABLE ENTRY : (Type and size)
- **WARNINGS:**
- DO NOT OPEN WHEN ENERGIZED
- AFTER DE-ENERGIZING, DELAY 15 MINUTES BEFORE OPENING

(*) The asterisk is replaced by a number and/or letter corresponding to manufacturing variation, the codification is stipulated on the descriptive documents.

(**) See table above.



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Type and power of lamp	Ambient temperature range	Concerned explosive atmosphere		Cable temperature
		Gas	Dusts	
100 W Incandescent	-20°C or -60°C/+40°C	T3	T200°C	170°C
	-20°C or -60°C/+60°C			170°C
105 W Halogen	-20°C or -60°C/+40°C	T3	T200°C	170°C
	-20°C or -60°C/+60°C			170°C
12 W LED	-20°C or -60°C/+40°C	T6	T85°C	85°C
	-20°C or -60°C/+60°C	T5	T100°C	85°C

ROUTINE EXAMINATIONS AND TESTS

In accordance with clause 16.1 of the IEC 60079-1 standard each apparatus defined above has to have successfully passed, before delivery, an overpressure test of a period comprised between 10 and 60 seconds under:

- 13.4 bar for ambient down to -20°C
- 18 bar for ambient down to -60°C



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