



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 15.0024X Issue No: 0 Certificate history:
Issue No. 0 (2015-07-31)

Status: **Current** Page 1 of 3

Date of Issue: **2015-07-31**

Applicant: **FEAM**
Via Mario Pagano, 3
I - Trezzano Sul Naviglio (MI)
Italy

Electrical Apparatus: **Ballast housing type SFDD**/SFDDE****
Optional accessory:

Type of Protection: **d, e and tb**

Marking:
Ex d IIB+H2 Tx Gb or Ex d e IIB+H2 Tx Gb
Ex tb IIIC Tx Db

Approved for issue on behalf of the IECEx
Certification Body:

Olivier COTTIN

Position:

Head of Equipment and Corporate Services Unit

Signature:
(for printed version)

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](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



IECEX Certificate of Conformity

Certificate No: IECEx INE 15.0024X Issue No: 0
Date of Issue: 2015-07-31 Page 2 of 3
Manufacturer: **FEAM**
Via Mario Pagano, 3
I - Trezzano Sul Naviglio (MI)
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 : 2013 Edition:2	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:

[FR/INE/ExTR15.0030/00](#)

Quality Assessment Report:

[IT/CES/QAR09.0003/05](#)



IECEx Certificate of Conformity

Certificate No: IECEx INE 15.0024X

Issue No: 0

Date of Issue: **2015-07-31**

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Flameproof enclosures intended to receive ballast for lighting fixtures (with lamps HPNA, HG, MH or with LEDs). The enclosures are made in light alloys or stainless steel and closed by screws with quality A2-70 or greater.

This equipment should be separated from lighting fixture (covered by a separated certificate of full conformity) by a sealing bushing in accordance with descriptive documents of the manufacturer.

The version SFDDE** has a terminals compartment protected by increased safety and intended to receive certified terminals as specified in the descriptive documents.

This equipment gets the degrees of protection IP66 in accordance with IEC 60529 standard.

CONDITIONS OF CERTIFICATION: YES as shown below:

The depth engagement of the threaded joints is superior to the value specified in the tables of IEC 60079-1.

The widths of the flameproof joints are superior than those specified in tables of IEC 60079-1 standard.

Annex:

[IECEx INE 15.0024X-00_Annex.pdf](#)



IECEx Certificate of Conformity

Certificate No.: IECEx INE 15.0024X

Issue No.: 0

Page 1 of 2

Annexe: IECEx INE 15.0024X-00_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

Maximum supply voltage: 277 V (or lower in accordance the manufacturer's instructions)

Rated frequency : 0/50/60 Hz

Maximum dissipated power of ballast for lamps HPNA, HG, MH : 600W

Maximum dissipated power of driver for LEDs : 250W

These enclosures can be use in the range of ambient temperatures from -60°C up to +40°C or +50°C or +60°C.

List of IECEx component certificates of terminals that could be mounted inside the terminal box and statement of the assessments regarding the older editions of the standard (only required for "Ex e" version):

Manufacturer	Type operating device	Code	IECEx Certificate number	Statement of the older editions of the standard
Weidmuller	Terminals	SAKK *****	IECEx SIR05.0032U	(1)
Phoenix	Terminals	SSK..KER-EX / SLK..-EX	IECEx KEM06.0045U	(1)

(1) : No applicable Technical Differences

MARKING

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

- FEAM
- I - 20090 Trezzano sul Naviglio (MI)
- SFDD** or SFDDE** (1)
- IECEx INE 15.0024X
- (Serial number)
- Ex d IIB+H2 T(2) Gb or Ex d e IIB+H2 T(2) Gb
- Ex tb IIIC T(2) Db IP66
- -60°C or -40°C or -20°C < Tamb < (2)
- CABLE GLAND : (Type and size)
- T. cable: (3)
- (Rated voltage and rated current and/or rated power)
- **WARNINGS:** DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT
USE SCREWS WITH MINIMUM QUALITY : A2-70

(1) The type is completed by a letter and numbers in accordance with the manufacturing variations.

(2) T5/T100°C for ambient temperature up to +50°C, T4/T135°C for ambient temperatures up to +60°C

(3) T_{cable}=90°C for ambient temperatures up to +60°C, T_{cable}=80°C for ambient temperature up to +50°C.



IECEx Certificate of Conformity

Certificate No.: IECEx INE 15.0024X

Issue No.: 0

Page 2 of 2

Annexe: IECEx INE 15.0024X-00_Annex.pdf

ROUTINE EXAMINATIONS AND TESTS

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

- 12.8 bar for ambient up to -20°C
- 14.6 bar for ambient up to -40°C
- 15.8 bar for ambient up to -60°C

For SFDDE** version:

In accordance with clause 7.1 of the IEC 60079-7 standard, a dielectric strength test on each of the different circuits of the connection units, performed according to the relevant standards, the supply voltage shall applied during one minute.