



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.: issue No.:

Status:

Date of Issue: **2012-09-07** Page 1 of 3

Applicant: **FEAM**
Via Pagano 3
20090 Trezzano s/N
Italy

Electrical Apparatus: **Explosion proof light fittings for fluorescent lamp**
Optional accessory:

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

Marking: **FEAM**
Address :...
Type : AVC...
Serial number : ...
Year of construction : ...
Ex d e q IIC T4 Gb
Ex tb IIC T80°C Db IP66
IECEx LCIE 12.0019 X

U=... , I=...

WARNING - DO NOT OPEN WHEN ENERGIZED
WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS
WARNING on the internal cover of terminals – LIVE PARTS BEHIND COVER – DO NOT CONTACT

Approved for issue on behalf of the IECEx
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:
(for printed version)


2012-09-07

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:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France

Documents relative to LCIE certification activities (Certificates,
QARs, ExTRs) can be registered under the references "LCI" or
"LCIE".





IECEx Certificate of Conformity

Certificate No.: IECEx LCIE 12.0019X

Date of Issue: 2012-09-07

Issue No.: 0

Page 2 of 3

Manufacturer: **FEAM**
Via Pagano 3
20090 Trezzano s/N
Italy

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 60079-5 : 2007-03 Edition: 3	Explosive atmospheres - Part 5: Equipment protection by powder filling "q"
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/LCIE/ExTR12.0021/00

Quality Assessment Report:

IT/CES/QAR09.0003/02



IECEx Certificate of Conformity

Certificate No.: IECEx LCIE 12.0019X

Date of Issue: 2012-09-07

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Fluorescent lamp made of reinforced fiber glass and polycarbonate. It houses a flameproof interlock switch and a ballast with powder filling. Others parts of the lamp comply with requirements of increased safety.

Parameters:

Rated voltage : 96 VAC up to 254 VAC

Rated power : 1x36W, 2x36W, 1x18W, 2x18W

Frequency : 50/60 Hz

ROUTINE VERIFICATIONS AND TESTS

Each single apparatus "e" shall be submitted to a dielectric strength test according to the specifications mentioned in paragraph 7 of IEC 60079-7.

CONDITIONS OF CERTIFICATION: YES as shown below:

Ta: -20°C up to +55°C



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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Certificate No.: IECEx LCIE 12.0019X issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2012-10-26)
Issue No. 0 (2012-9-7)

Date of Issue: **2012-10-26** Page 1 of 4

Applicant: **FEAM**
Via Pagano 3
20090 Trezzano s/N
Italy

Electrical Apparatus: **Explosion proof light fittings for fluorescent lamp**
Optional accessory:

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

Marking: FEAM
Address : ...
Type : AVC...
Serial number : ...
Year of construction : ...
Ex d e q IIC T4 Gb
Ex tb IIIC T80°C Db
IP66
IECEX LCIE 12.0019 X

U = ... ; I = ...

WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS
WARNING on the internal cover of terminals – LIVE PARTS BEHIND COVER – DO NOT CONTACT

Approved for issue on behalf of the IECEx
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:
(for printed version)

Date:

2012-10-26

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IECEX Certificate of Conformity

Certificate No.: IECEx LCIE 12.0019X

Date of Issue: **2012-10-26**

Issue No.: **1**

Page 2 of 4

Manufacturer: **FEAM**
Via Pagano 3
20090 Trezzano s/N
Italy

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.

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IEC 60079-5 : 2007-03 Edition: 3	Explosive atmospheres - Part 5: Equipment protection by powder filling "q"
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/LCIE/ExTR12.0021/00](#)

[FR/LCIE/ExTR12.0021/01](#)

Quality Assessment Report:

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



IECEx Certificate of Conformity

Certificate No.: IECEx LCIE 12.0019X

Date of Issue: 2012-10-26

Issue No.: 1

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Fluorescent lamp made of reinforced fiber glass and polycarbonate. It houses a flameproof interlock switch and a ballast with powder filling. Others parts of the lamp comply with requirements of increased safety.

Parameters:

Rated voltage : 96 VAC up to 254 VAC

Rated power : 1x36W, 2x36W, 1x18W, 2x18W

Frequency : 50/60 Hz

ROUTINE VERIFICATIONS AND TESTS

Each single apparatus "e" shall be submitted to a dielectric strength test according to the specifications mentioned in paragraph 7 of IEC 60079-7.

CONDITIONS OF CERTIFICATION: YES as shown below:

$-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +55^{\circ}\text{C}$



IECEx Certificate of Conformity

Certificate No.: IECEx LCIE 12.0019X

Date of Issue: **2012-10-26**

Issue No.: **1**

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 01 :
Addition of the emergency version
Modification of the ambient temperature range.



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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Certificate No.: IECEx LCIE 12.0019X issue No.:2

Status: **Current**

Date of Issue: **2013-03-20** Page 1 of 4

Certificate history:
Issue No. 2 (2013-3-20)
Issue No. 1 (2012-10-26)
Issue No. 0 (2012-9-7)

Applicant: **FEAM**
Via Pagano 3
20090 Trezzano s/N
Italy

Electrical Apparatus: **Explosion proof light fittings for fluorescent lamp**
Optional accessory:

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

Marking: FEAM
Address :...
Type : AVC...
Serial number : ...
Year of construction : ...
Ex d e q IIC T4 Gb
Ex tb IIIC T80°C Db
IP66
IECEX LCIE 12.0019 X

U = ... ; I = ...
WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS
WARNING on the internal cover of terminals – LIVE PARTS BEHIND COVER – DO NOT CONTACT

Approved for issue on behalf of the IECEx
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:
(for printed version)

Date:

2013-03-20

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IECEX Certificate of Conformity

Certificate No.: IECEX LCIE 12.0019X

Date of Issue: **2013-03-20**

Issue No.: **2**

Page 2 of 4

Manufacturer: **FEAM**
Via Pagano 3
20090 Trezzano s/N
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:

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IEC 60079-5 : 2007-03 Edition: 3	Explosive atmospheres - Part 5: Equipment protection by powder filling "q"
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/LCIE/ExTR12.0021/00](#)

[FR/LCIE/ExTR12.0021/01](#)

[FR/LCIE/ExTR12.0021/02](#)

Quality Assessment Report:

[CN/CQM/QAR07.0003/03](#)

[IT/CES/QAR09.0003/03](#)



IECEx Certificate of Conformity

Certificate No.: IECEx LCIE 12.0019X

Date of Issue: 2013-03-20

Issue No.: 2

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Fluorescent lamp made of reinforced fiber glass and polycarbonate. It houses a flameproof interlock switch and a ballast with powder filling. Others parts of the lamp comply with requirements of increased safety.

Parameters:

Rated voltage :

96 VAC up to 254 VAC

96 VDC up to 130 VDC

Rated power : 1x36W, 2x36W, 1x18W, 2x18W

Frequency : 50/60 Hz

ROUTINE VERIFICATIONS AND TESTS

Each single apparatus "e" shall be submitted to a dielectric strength test according to the specifications mentioned in paragraph 7 of IEC 60079-7.

CONDITIONS OF CERTIFICATION: YES as shown below:

$-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$



IECEx Certificate of Conformity

Certificate No.: IECEx LCIE 12.0019X

Date of Issue: **2013-03-20**

Issue No.: **2**

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 01 :

Addition of the emergency version
Modification of the ambient temperature

Issue 02 :

Addition of DC voltage

List of models :

AVC-**-***	<u>AVC</u>	<u>-*</u>	<u>-**</u>	<u>-***</u>
	Type	Model	Number of lamps	Lamp power
		E : Emergency	1	18 : 18W
			2	36 : 36W