



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 TUN 12.0025U

Issue No: 1

Certificate history:

Issue No. 1 (2014-05-14)

Issue No. 0 (2012-10-24)

Status: **Current**

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Date of Issue: **2014-05-14**

Applicant: **F.E.A.M. - Forniture Elettriche Apparecchiature Materiali S.r.l.**
Via Mario Pagano, 3
20090 Trezzano sul Naviglio (MI)
Italy

Equipment: **Accessories for enclosures Ex d and/or Ex e and/or Ex tb**

Optional accessory:

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

Marking:

Ex d IIC Gb

Ex e IIC Gb

Ex t III C Db IP66

*Approved for issue on behalf of the IECEx
Certification Body:*

Andreas Meyer

Position:

Head of the IECEx CB

*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:

TÜV NORD CERT GmbH
Hanover Office
Am TÜV 1
30519 Hannover
Germany





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Manufacturer: **F.E.A.M. - Forniture Elettriche Apparecchiature Materiali S.r.l.**
Via Mario Pagano, 3
20090 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 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:

[DE/TUN/ExTR12.0034/01](#)

Quality Assessment Report:

[IT/CES/QAR09.0003/04](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

RE – REM – REB – REN Reducers / Adapters

LBY Pulling elbows

NP – EM Nipples / Couplings

PLG Plugs

ELF – ELM – ELMF Elbows

V Drain valve

This accessories are destined to be used in surface, in environments which it is probable the formation of explosive atmosphere of high level of protection (Gb and/or Db) during consistent in a mix of air and inflammable substances in the form of gas, vapours, fogs (group IIC) and/or mixtures of air and combustible dusts (group IIIC) for1. for use with working temperature range -60°C ... +130°C2. the LBY and ELF - ELM - ELMF are tested with a pressure of 30 bars3. is not possible to use the pulling elbows and the elbows with sparking elements inside.

SPECIFIC CONDITIONS OF USE: NO



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

Correction on formal mistakes on the test temperature for thermal endurance to cold.

Annex:

[Attachment CoC TUN 12.0025U Issue 1.pdf](#)

Product description:

The accessories type RE – REM – REB – REN – LBY – NP – EM – ELF – ELM – ELMF are normally used in rigid tube electrical systems with the purposes of facilitating cable insertion in electrical enclosures without altering type of protection. The types of protection are Ex d, Ex e and Ex tb

The accessories type PLG are normally used to close holes threaded of entry cable in electrical enclosures without altering type of protection. The types of protection are Ex d, Ex e and Ex tb

The accessories type V-ECDE are normally used in electrical enclosures to permit drain and breather of the same one. The types of protection are Ex e and Ex tb.

The type code is reported in the following table:

Type	Sizes	Type of threatened	Materials	Model type
LBY	16 – 26 – 36 – 56	N – M – G	AL – X – AZ – OT – ON	-
NP	1 ÷ 8	N – M – G	AL – X – AZ – OT – ON	A - B
EM	1 ÷ 8	N – M – G	AL – X – AZ – OT – ON	-
PLG	1 ÷ 8	N – M – G	AL – X – AZ – OT – ON	A – B – C - D
ELF – ELM – ELMF	1 ÷ 8	N – M – G	AL – X – AZ – OT – ON	-
V-ECDE	1	N – M	X	-

Type	Sizes	Type of threatened	Sizes	Type of threatened	Materials	Model type
RE – REM – REB – REN	1 ÷ 9	N – M – G	1 ÷ 9	N – M – G	AL – X – AZ – OT – ON	A - B

Type of threatened: N= NPT; M= Metric; G= Gas

Materials: AL= Aluminium ; X= stainless steel; AZ= carbon steel; OT= brass; ON= nickel plated brass

For the model types refer to the specific drawings reported in the ExTR.

Permitted range of the ambient temperature: - 60 °C to +130 °C

Threatened type:

Size	ASA B1.20.1 NPT	ISO 228-1 Gas	ISO 262 Metric
	Identification type		
	N	G	M
1	1/2" NPT	G 1/2"	M20 x p
2	3/4" NPT	G 3/4"	M25 x p
3	1" NPT	G 1"	M32 x p
4	1 1/4" NPT	G 1 1/4"	M40 x p
5	1 1/2" NPT	G 1 1/2"	M50 x p
6	2" NPT	G 2"	M63 x p
7	2 1/2" NPT	G 2 1/2"	M75 x p
8	3" NPT	G 3"	M80 x p
			M85 x p
			M90 x p

The sign "U" is placed after the certificate number, it indicates that this certificate must not be confounded with a CoC which is destined for an equipment or protective system. This component certificate must only be used as a basis for a certification of equipment and protective systems.

“Conditions of Use” for Ex Component:

1. The LBY and ALF - ELM - ELMF are tested with a pressure of 30 bars.
2. It is not possible to use the pulling elbows with sparking elements inside.