



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.:1
 Status:
 Date of Issue: **2015-02-24** Page 1 of 5

Certificate history:

Issue No. 1 (2015-2-24)
 Issue No. 0 (2014-2-26)

Applicant: **EMME TECHNOLOGY S.r.l.**
 Via G. Di Vittorio 307/27
 20099 Sesto San Giovanni (MI)
Italy

Electrical Apparatus: **Limit Switch Box BE - 48 Series**
 Optional accessory:

Type of Protection: **Flameproof enclosure "d", dust protection enclosure "t"**

Marking: Ex d IIC T6 Gb
 Ex tb IIIC T* Db
 * - see ratings in Equipment description

Approved for issue on behalf of the IECEx
 Certification Body:

Dipl.Ing. Lukáš Martinák

Position:

Head of Certification Body

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:

**Fyzikálne technický zkusební ústav
 (Physical -Technical Testing Institute)
 Pikartská 7
 71607 Ostrava - Radvanice
 Czech Republic**





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Manufacturer: **EMME TECHNOLOGY S.r.l.**
Via G. Di Vittorio 307/27
20099 Sesto San Giovanni (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 : 2007-10 Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 5

IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6

IEC 60079-31 : 2008 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition: 1

*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:

[CZ/FTZU/ExTR14.0004/00](#)

[CZ/FTZU/ExTR14.0004/01](#)

Quality Assessment Report:

[CZ/FTZU/QAR14.0001/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Limit Switch Box type BE - 48 Series in type of Ex-protection „Ex d“ and degree of protection IP 67 consists of cover and body fixed by hexagon socket set screws. To the cover is fixed by screws polycarbonate sight glass of indicator. In side section of enclosure are two threaded holes type NPT1/2" or M20x1,5 for cable glands. Operating shaft with lobes for switch or sensor goes through enclosure. The terminal block for connection of operating voltage is situated inside of enclosure. The mounting bracket is fixed in lower part. The limit switch box is equipped by type of switches or sensors with their max. current loading – see below the list.

CONDITIONS OF CERTIFICATION: YES as shown below:

- 1) Ambient temperature Ta: -20°C to +60°C
- 2) It shall be used only cable glands and plugs with Ex-protection according to marking of this certificate.
- 3) The basic values for maximum constructional gaps are different from the maximum values shown in Table

1 and Table 2 of the standard IEC 60079-1. The values are specified in the approval document BE48-S8261 dated 03/2011.

4) The plastic part of indicator shall be cleaned with damp duster only.



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EQUIPMENT(continued):

The list:

BE - 48: mechanical switch (2 or 4 micro switches) with parameters:

Nominal Voltage Un: max. 30 V DC and max. 250 V AC

Nominal Current In: max. 6 A and max. 11 A

Max.surface temperature of the switch box: T 75°C

BS - 48: inductive sensor with parameters:

Nominal Voltage Un: 5 V- 60 V DC; 10 V - 140 V DC and 20 V - 140 V AC

Nominal Current In: max.100 mA and max. 200 mA

Max.surface temperature of the switch box: T 75°C

BS - 48: inductive sensor with parameters:

Nominal Voltage Un: 8,2 V DC and 10 V- 30 V DC

Nominal Current In: max. 3 mA and max. 100 mA

Max.surface temperature of the switch box: T 61°C

BM - 48: magnetic switch with parameters:

Nominal Voltage Un: max 220V AC - 300V DC

Nominal Current In: max 3A

Max.surface temperature of the switch box: T 61°C

See Installation and operation manual Rev.7 dated 11/2014



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

Issue 1:

The present change is modifying the shape of the housing indicator - the other possible variant according to requirements of customer and in the alternative use of mechanical switches and sensors in the switch box BE 48 and BS 48 according to the Installation and operation manual 11/2014 rev.7.

