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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 FTZU 15.0014X

Issue No: 1

Certificate history:
Issue No. 1 (2019-07-30)
Issue No. 0 (2015-07-16)

Status: **Current**

Date of Issue: **2019-07-30**

Applicant: **Festo AG & Co.KG**
Ruiter Strasse 82
73734 Esslingen
Germany

Equipment: **Limit switch box SRBE series**

Optional accessory:

Type of Protection: **flameproof enclosure, dust protection**

Marking:
Ex db IIC T6 Gb
Ex tb IIIC T ...°C Db – see General product information

Approved for issue on behalf of the IECEx Certification Body:

Dipl. Ing. Lukáš Martinák

Position:

Head of Certification Body

Signature:
(for printed version)

Date:

2019-07-30

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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:

Fyzikalne technicky zkusebni ustav
(Physical -Technical Testing Institute)
Pikartska 7, 71607 Ostrava - Radvanice
Czech Republic

5497738 | DRW | - | 226285

5497738 | DRW | - | 226285

IECEx Certificate of Conformity

Certificate No:	IECEx FTZU 15.0014X	Issue No: 1
Date of Issue:	2019-07-30	Page 2 of 5
Manufacturer:	**Festo AG & Co.KG** Ruiter Strasse 82 73734 Esslingen **Germany**	

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 : 2014-06 Edition:7.0	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"

*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/ExTR15.0014/00 CZ/FTZU/ExTR15.0014/01

Quality Assessment Report:

NL/DEK/QAR12.0012/06

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5497738 | DRW | - | 226285

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IECEx Certificate of Conformity

Certificate No:	IECEx FTZU 15.0014X	Issue No: 1
Date of Issue:	2019-07-30	Page 3 of 5

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Limit Switch Box type SRBE 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 limit switch box can be equipped by mechanical, inductive or magnetic switch and sensor according to manufacturer specification. The mounting bracket is fixed in lower part.

See Technical description SRBE series Rev.0, dated 2019-06-19

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Ambient temperature Tamb: -20°C to +60°C.

2. The cable glands and plugs shall be used only in Ex-protection according marking (Code) of this certificate and with minimum degree of protection IP 67.

3. For information on the dimensions of the flameproof joints the manufacturer shall be contacted.

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

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EQUIPMENT (continued):

Technical specification of limit switch box:

SRBE-Cxx-YR90-MW-… . :
- 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. 10 A
Tmax.surface temperature of the switch box: T 75°C

SRBE-Cxx-YR90-N-1-ZU… . :
- 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
Tmax.surface temperature of the switch box: T 75°C

SRBE-Cxx-YR90-N-20N… . , SRBE-Cxx-YR90-N-1-P-… . , SRBE-Cxx-YR90-N-1-N-… . :
- 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
Tmax.surface temperature of the switch box: T 61°C

SRBE-Cxx-YR90-R-….:
- magnetic switch
Nominal Voltage Un: max 220V AC - 300V DC
Nominal Current In: max 3A
Max. surface temperature of the switch box: T 61°C

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5497738 | DRW | - | 226285

IECEx Certificate of Conformity

Certificate No:	IECEx FTZU 15.0014X	Issue No: 1
Date of Issue:	2019-07-30	Page 5 of 5

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

Issue 1:

1. The types of limit switch box are recertified according to standards IEC 60079-0:2011, IEC 60079-1:2014, IEC 60079-31:2013.
2. The marking plate has been modified.

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