



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX BVS 07.0014** Page 1 of 5 Certificate history:
Status: **Current** Issue No: 5 Issue 4 (2019-02-27)
Date of Issue: 2020-02-17 Issue 3 (2015-06-30)
Issue 2 (2013-01-29)
Issue 1 (2009-08-13)
Issue 0 (2007-08-02)
Applicant: **Steute Technologies GmbH & Co.**
Brückenstraße 91
32584 Löhne
Germany
Equipment: **Position switch type Ex 335 **, Ex ES 98 *-**, Ex EM 98 *-**, Ex ES 98 *-** -40 °C and Ex EM 98 *-** -40 °C**
Optional accessory:
Type of Protection: **Flameproof Enclosure "d", Increased Safety "e"; Protection by Enclosure "t"**
Marking: Ex db eb IIC T6/T5 Gb
Ex tb IIIC T80°C/T95°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Dr Michael Wittler

Michael Wittler 17.01.2020

Position:

Deputy 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 www.iecex.com or use of this QR Code.



Certificate issued by:

DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
On the safe side.



IECEX Certificate of Conformity

Certificate No.: **IECEX BVS 07.0014**

Page 2 of 5

Date of issue: 2020-02-17

Issue No: 5

Manufacturer: **Steute Technologies GmbH & Co.**
Brückenstraße 91
32584 Löhne
Germany

Additional
manufacturing
locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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/BVS/ExTR07.0017/04

Quality Assessment Report:

DE/BVS/QAR06.0023/12



IECEx Certificate of Conformity

Certificate No.: **IECEX BVS 07.0014**

Page 3 of 5

Date of issue: 2020-02-17

Issue No: 5

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

General product information:

Subject and type

Position switch types Ex 335 **, Ex ES 98 *-**, Ex EM 98 *-**, Ex ES 98 *-** -40 °C and Ex EM 98 *-** -40 °C

The asterisks of the type code will be replaced by numbers and letters to allow for a clear distinction of their actuation mode and contact function; however, they are not EX-relevant.

Description

The position switch consists of a painted enclosure either made of steel (type Ex 335 * *) nor for types Ex ** 98 *-** and Ex ** 98 *-** -40 °C made of aluminium or a combination of stainless steel and aluminium; they are designed for the type of protection Increased Safety "e" and Protection by Enclosure "t".

Inside the enclosure a switch in type of protection Flameproof Enclosure according to one of the following certificates is installed:

| | |
|---|-----------------------|
| - | IECEX PTB 05.0025U or |
| - | IECEX BVS 16.0009U or |
| - | IECEX BVS 16.0069U |

SPECIFIC CONDITIONS OF USE: NO



IECEX Certificate of Conformity

Certificate No.: **IECEX BVS 07.0014**

Page 4 of 5

Date of issue: 2020-02-17

Issue No: 5

Equipment (continued):

Parameters:

See Annex



IECEx Certificate of Conformity

Certificate No.: **IECEX BVS 07.0014**

Page 5 of 5

Date of issue: 2020-02-17

Issue No: 5

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Raising to the current standard
- Additional switch type Ex E* 04.93 according to IECEx BVS 16.0069U

Annex:

BVS_07_0014_Steute_Annex_issue5.pdf



IECEX Certificate of Conformity



Certificate No.: IECEx BVS 07.0014 issue No.: 5
Annex
Page 1 of 1

Parameters

IECEX BVS 16.0009U

| | | |
|-----------------------------------------|------------------|-----------------|
| Rated switching voltage | 250 | V AC |
| | 230 | V DC |
| Rated switching current | 6 | A AC |
| | 0.25 | A DC |
| Category of use | 15 | AC |
| | 13 | DC |
| Rated connection capacity | 1.5 | mm ² |
| Ambient temperature range (T6 / T80 °C) | -20 °C to +40 °C | |
| Ambient temperature range (T5 / T95 °C) | -20 °C to +60 °C | |
| Frequency of operation | 1800 / h | |

IECEX PTB 05.0025U

| | | | |
|---------------------------|---|-------|-----------------|
| Rated switching voltage | ≤ | 250 | V AC |
| | ≤ | 125 | V DC |
| Rated switching current | | 6.6 | A |
| | | 4.4 | A |
| Category of use | | AC 15 | |
| | | DC 12 | |
| Rated connection capacity | ≤ | 2.5 | mm ² |

| | |
|------------------------------|-----------------------------------------------|
| Max. Rated switching current | Ambient temperature range -40 °C to +70 °C |
| 4.4 A | T6 |
| 6.6 A | T5 |

Frequency of operation 1800 / h

IECEX BVS 16.0069U

Electrical ratings

| | | | |
|----------------------|---------------------|----------------|-----------|
| | Alternating current | Direct current | |
| Utilization category | AC 15 | DC 13 | DC 13 |
| Switching voltage | max. 250 V | max. 250 V | max. 24 V |
| Switching current | max. 1.5 A | max. 0.2 A | max. 3 A |

Thermal ratings

| | | |
|---------------------|---------------------|------------------------|
| Ambient temperature | -20 °C up to +60 °C | (flameproof enclosure) |
| Service temperature | -20 °C up to +90 °C | |