



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 BVS 16.0052

Issue No: 2

Certificate history:

Status: **Current**

Issue No. 2 (2019-07-02)

Issue No. 1 (2019-02-27)

Date of Issue: **2019-07-02**

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Issue No. 0 (2016-08-08)

Applicant: **Staute Technologies GmbH & Co. KG**
Brückenstraße 91
32584 Löhne
Germany

Equipment: **Position switch type Ex E* 97 *****

Optional accessory:

Type of Protection: **Flameproof Enclosures "d", Protection by Enclosure "t", Increased Safety "e"**

Marking:

Ex db eb IIC T6 Gb
Ex tb IIIC T80°C Db

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

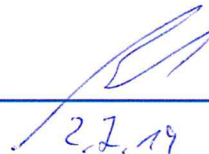
Jörg Koch

Position:

Head of Certification Body

*Signature:
(for printed version)*

Date:


22.19

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:

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



DEKRA
On the safe side.



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Manufacturer: **Steute Technologies GmbH & Co. KG**
Brückenstraße 91
32584 Löhne
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 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - 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"
IEC 60079-7 : 2017 Edition:5.1	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/BVS/ExTR16.0052/01](#)

Quality Assessment Report:

[DE/BVS/QAR06.0023/11](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Subject and Type

Position switch type Ex E* 97 ***

1. Asterisk Switch
2. Asterisk Actuator
3. Asterisk Contact
4. Asterisk Lower ambient temperature range

Description

The position switch Ex E* 97 *** is designed in type of protection Increased Safety "e" and Protection by Enclosure "t" and is equipped with a switch type 8080/1-* (IECEx PTB 05.0025 U), type Ex 95... (IECEx BVS 16.0009U) or type Ex E* 04.93** (IECEx BVS 16.0069U) in type of protection Flameproof Enclosure "d".

The position switch is suitable for the application in areas potentially hazardous by combustible gases and dusts.

Listing of all components used referring to older standards
See Annex

Parameters

See Annex

SPECIFIC CONDITIONS OF USE: NO



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

- Optionally use of the switches type Ex 95... or type Ex E* 04.93**
- Optionally use of 2 new actuators type WHKR and WHKD
- Extension of the ambient temperature range
- Update to the current version of the standard

Annex:

[BVS_16_0052_steute_Annex_issue2.pdf](#)



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Listing of all components used referring to older standards

Subject and type	Certificate	Standards
Switch type 8080/1-*	IECEX PTB 05.0025 U	IEC 60079-0:2011 ¹ IEC 60079-1:2007 ¹
Switch type Ex 95...	IECEX BVS 16.0009U	IEC 60079-0:2011 ¹ IEC 60079-1:2014
Switch type Ex E* 04.93**	IECEX BVS 16.0069U	IEC 60079-0:2011 ¹ IEC 60079-1:2014

¹ No applicable technical differences

² Technical differences evaluated and found satisfactory

Parameters

With switch type 8080/1-* (IECEX PTB 05.0025 U)

Rated switching voltage	AC	500	V
Rated switching current		2	A
	or	4	A
Utilization category	AC	15	
Rated connecting capacity		1.5	mm ²
Ambient temperature range			
For 4 A			-20 °C / -40 °C / -60 °C up to +55 °C
For 2 A			-20 °C / -40 °C / -60 °C up to +60 °C
Degree of protection IP66 (IP67 for -20 °C up to +55 °C /+60 °C)			

With switch type Ex 95... (IECEX BVS 16.0009U)

Rated switching voltage	AC	250	V
Rated switching current		3	A
	or	6	A
Utilization category	AC	15	
Rated connecting capacity		1.5	mm ²
Ambient temperature range			
For 6 A			-20 °C up to +45 °C
For 3 A			-20 °C up to +60 °C
Degree of protection IP66 (IP67 for -20 °C up to +55 °C /+60 °C)			

With switch type Ex E* 04.93** (IECEX BVS 16.0069U)

Rated switching voltage	AC	250	V
Rated switching current		1.5	A
Utilization category	AC	15	
Rated connecting capacity		1.5	mm ²
Ambient temperature range			-20 °C up to +60 °C
Degree of protection IP66 (IP67 for -20 °C up to +55 °C /+60 °C)			