



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 PTB 06.0053X issue No.: 1
 Status: **Current**
 Date of Issue: **2011-07-25** Page 1 of 5

Certificate history:
 Issue No. 1 (2011-7-25)
 Issue No. 0 (2006-7-27)

Applicant: **steute Schaltgeräte GmbH Co. KG**
 Brückenstraße 91
 32584 Löhne
 Germany

Electrical Apparatus: **Position switch Type Ex 13...**
 Optional accessory:

Type of Protection: **Flameproof enclosure "d", Protection by enclosure "tb"**

Marking: **Ex d IIC T6/T5 Gb**
Ex tb IIIC T 80 °C/ T 95 °C Db IP65

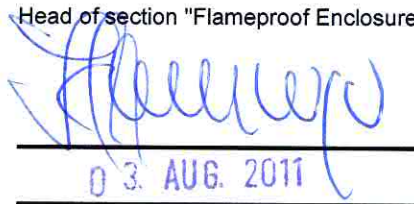
Approved for issue on behalf of the IECEx
 Certification Body:

Dr. Ing. Uwe Klausmeyer

Position:

Head of section "Flameproof Enclosures"

Signature:
 (for printed version)



Date:

03. AUG. 2011

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:

Physikalisch-Technische Bundesanstalt (PTB)
 Bundesallee 100
 38116 Braunschweig
 Germany





IECEx Certificate of Conformity

Certificate No.: IECEx PTB 06.0053X

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Issue No.: 1

Page 2 of 5

Manufacturer: **steute Schaltgeräte GmbH Co. KG**
Brückenstraße 91
32584 Löhne
Germany

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:

[DE/PTB/ExTR06.0085/01](#)

Quality Assessment Report:

[DE/BVS/QAR06.0023/03](#)



IECEx Certificate of Conformity

Certificate No.: IECEx PTB 06.0053X

Date of Issue: 2011-07-25

Issue No.: 1

Page 3 of 5

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description

The position switch, type Ex 13... , is used for switching signal and control circuits. Actuator elements will be used as required. Connection is made by means of the integrated connecting cable (open-ended line).

Technical data

Rated insulation voltage	250 V	
Rated operating voltage	up to 250 V	up to 230 V
Rated current I_e	max. 6A	max. 0,25 A
Utilization category	AC-15	DC-13

Provided the making and breaking capacities are met, rated values other than those specified above are acceptable and will be defined by the manufacturer on the basis of the operating mode, utilisation category, etc.

CONDITIONS OF CERTIFICATION: YES as shown below:

Special conditions for safe use

The position switch has not been subjected to an impact test in compliance with IEC 60079-0.

The position switch shall be installed that equivalent protection is guaranteed.

The connecting cable (open-ended line) of the position switch shall be installed to provide for permanent wiring and adequate protection against mechanical damage.



IECEx Certificate of Conformity

Certificate No.: IECEx PTB 06.0053X

Date of Issue: 2011-07-25

Issue No.: 1

Page 4 of 5

EQUIPMENT(continued):

Technical data (continued)

Contacts	1 NOC and 1 NCC or 2 NCCs		
Rated conductor cross section	up to 4 x 0.5 mm ² or 0.75 mm ²		
Rated ambient temperature range	-20 °C to +90 °C		
Temperature class	T6	T5	T5
Ambient temperatureThermal limiting current 3 A at ambient temperatures > 75 °C	+65 °C	+75 °C	+90 °C
Rated service temperature range	up to 100 °C		

Nomenclature

Ex 13	.	.	.
1	2	3	4

- 1) type
- 2) type of actuator
- 3) contact
- 4) contact



IECEx Certificate of Conformity

Certificate No.: IECEx PTB 06.0053X

Date of Issue: 2011-07-25

Issue No.: 1

Page 5 of 5

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

The type designation changes from EEx 13... to Ex 13...
Test according to the standards IEC 60079-0:2007 and IEC 60079-31:2008. Therefore a new marking is necessary.

