



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 06.0098X	Issue No: 3	Certificate history: Issue No. 3 (2017-03-10) Issue No. 2 (2014-01-13) Issue No. 1 (2011-07-25) Issue No. 0 (2006-12-07)
Status:	Current	Page 1 of 4	
Date of Issue:	2017-03-10		
Applicant:	steute Schaltgeräte GmbH & Co. KG Brückenstraße 91 D-32584 Löhne Germany		
Equipment:	Position switch, type Ex 14 ***** and Ex ST 14 *****		
Optional accessory:			
Type of Protection:	Flameproof Enclosure "db", Protection by Enclosure "tb"		
Marking:	Ex db IIC T5/T6 Gb Ex tb III C T 80 °C/ T 95 °C Db		

Approved for issue on behalf of the IECEx
Certification Body:

Dr.-Ing. Detlev Markus

Position:

Head of Department "Explosion Protection in Energy Technology"

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:

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





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Manufacturer: **steute Schaltgeräte 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 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 : 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:

[DE/PTB/ExTR06.0111/03](#)

Quality Assessment Report:

[DE/BVS/QAR06.0023/08](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description

The position switch, type Ex 14***** and Ex ST 14 ***** , 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 and Nomenclature see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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.
The open wires of the unconnected cable end must - in the potentially explosive area - be connected in an enclosure that complies with a standardised type of protection in accordance with EN 60079-0, section 1.
The capacitance of the guide socket and the actuator is 4,5+- 0,5 pF. For the use in the gasgroup IIC a distance of at least 4 mm between the guide socket and surrounding metal surfaces has to be guaranteed.



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

- 1) New test according to IEC 60079-1:2014 und IEC 60079-31:2013. The marking is changed.
- 2) The type Ex ST 14 ***** has been added and the nomenclature has been redesigned.
- 3) Two additional cable can be used.
- 4) An additional material for the marking plate can be used.

Annex:

[COCA-060098-03.pdf](#)



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

Electrical Apparatus: Position switch type Ex 14 ***** and Ex ST 14 *****

Description

The position switch type Ex 14 ***** and Ex ST 14 ***** in the type of protection flameproof enclosure "db" is used for switching control and signal circuits.

It is fitted with different actuating elements.

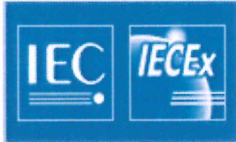
The connection occurs by the molded connection cable (open-ended line).

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.

Contacts	1 NOC and 1 NCC 1 NOC or 1 NCC 2 NCCs
Rated conductor cross section	up to 4 x 0.5 mm ² or 0.75 mm ²
Degree of protection	IP65 acc. EN 60529
Capacitance of guide socket and actuator	4.5±0.5 pF
Rated ambient temperature range	Max. -40 °C to +90 °C -20°C to +60 °C (T6), +75 °C (T5), +90 °C (T5, max 3 A) -40°C to +60 °C (T6), +75 °C (T5), +90 °C (T5, max 3 A)



Following molded connection cables can be used:

H05VVF -2 or 4 x 0.75 mm²

Lapptherm 145 - 2 or 4 x 0.75 mm²

Betaflam 145 - 2 or 4 x 0.75 mm²

SIHF - 2 or 4 x 0.75 mm²

Nomenclature

Ex 14	*	*	*	*	*	*
Ex ST 14						
1	2	3	4	5	6	7

- 1) type, ST = actuator
- 2) actuation
- 3) cable outlet
- 4) contact function
- 5) cable length
- 6) ambient temperature (-40 °C)
- 7) additional description