



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 07.0034X issue No.:2

Status: **Current**

Date of Issue: **2011-07-25** Page 1 of 5

Certificate history:

Issue No. 2 (2011-7-25)

Issue No. 1 (2007-7-18)

Issue No. 0 (2007-6-20)

Applicant: **steute Schaltgeräte GmbH & Co. KG**
Brückenstraße 91
32549 Löhne
Germany

Electrical Apparatus: **Pull-Wire Switch type Ex ZS 71-....., Ex ZS 73-....., Ex ZS 75-..... and Ex ZS 80-.....**
Optional accessory:

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

Marking: **Ex d IIC T6 or T5 Gb**
Ex tb IIIC T80°C or T95 °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





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Manufacturer: **steute Schaltgeräte GmbH & Co. KG**
Brückenstraße 91
32549 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/ExTR07.0038/01

Quality Assessment Report:

DE/BVS/QAR06.0023/03



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description of equipment

The pull wire switches, type Ex ZS 71-... , Ex ZS 73-... , Ex ZS 75-... and Ex ZS 80-... consist of the built-in switch type Ex 14... , which is mounted in a light-alloy enclosure with plastic cover or light-alloy cover of different sizes to protect it against impact. The enclosures are equipped with a push button. Connection is by means of the integrated connecting cable (unconnected cable end).

The built-in switch is certified in IECEx PTB 06.0098X

CONDITIONS OF CERTIFICATION: YES as shown below:

Special condition of use

The connecting lead (open-ended line) of the pull wire switch shall be installed to provide for permanent wiring and adequate protection against mechanical damage. Within the potentially explosive area, the open insulated wires of the unconnected cable end have to be connected by means of an enclosure that meets the requirements of a standard type of protection specified in IEC 60079-0, section 1.



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EQUIPMENT(continued):**Nomenclature**

Ex	ZS ..	--	...
1	2	3	4

1: Ex pull-wire switch

2: type (Ex ZS 71-, 73-, 75-, 80-)

3: Contact function

4: Actuation, unlocking

Technical data

Rated insulation voltage	up to	250 V
Rated operating voltage	up to	250 V 230 V
Rated current I _e	max.	6 A, 3 A 0.25 A
Utilization category		AC-15 DC-13
Contact assignment		1 NOC and 1 NCC, or 2 NCC 2 NOC and 2 NCC 3 NCC and 1 NOC 4 NCC
Conductor connection		up to 4 x 0.5 mm ² or 0.75 mm ²
Ambient temperature and temperature class		- 20 °C up to +55 °C, T6 - 20 °C up to +70 °C, T5 - 20 °C up to +90 °C, T5 and max. 3 A
Protection against contact, foreign bodies and water		IP65 in compliance with IEC 60529
Provided the making and breaking capacities defined in the relevant regulations 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.		



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

Test according to the standards IEC 60079-0:2007 and IEC 60079-31:2008. Therefore a new marking is necessary.

The type designation changes from type EEx ZS 71-...., EEx ZS 73-...., EEx ZS 75-.... and EEx ZS 80-.... to type Ex ZS 71-...., Ex ZS 73-...., Ex ZS 75-.... and Ex ZS 80-....

