



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: 3	<u>Certificate history:</u>
Status:	Current	Page 1 of 4	Issue No. 3 (2015-08-13)
Date of Issue:	2015-08-13		Issue No. 2 (2011-07-25)
Applicant:	steute Schaltgeräte GmbH & Co. KG Brückenstraße 91 32584 Löhne Germany		Issue No. 1 (2007-07-18)
Electrical Apparatus:	Pull-Wire Switch type Ex ZS 71 ****, Ex ZS 73 ****, Ex ZS 75 **** and Ex ZS 80 ****		Issue No. 0 (2007-06-20)
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		

Approved for issue on behalf of the IECEx
Certification Body:

Dr.-Ing. Uwe Klausmeyer

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:



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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 : 2007-04 Edition:6	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/ExTR07.0038/02

Quality Assessment Report:

DE/BVS/QAR06.0023/07



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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. Technical data and Nomenclature see Annex.

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

- 1) The pull-wire switch can be equipped with a cover out of Aluminium.
- 2) The ambient temperature for pull-wire switch with a cover out of metal is changed to -40 °C up to +95 °C.
- 3) The ambient temperature for pull-wire switch with a cover out of polyamide is changed to -20 °C up to +95 °C.
- 4) The contact functions are Extended.
- 5) The nomenclature has been updated.
- 6) New test according to the standards IEC 60079-0:2011 (Ed. 6), IEC 60079-1:2006 (Ed. 6) IEC 60079-31:2013 (Ed. 2). The marking is changed to
Ex d IIC T6, T5 Gb
Ex tb IIIC T80 °C, T95 °C Db

Annex:

[Annex-IECEX PTB 07.0034 Issue 3.pdf](#)



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

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

Description of equipment

The pull-wire switches, type Ex ZS 71 ****, Ex ZS 73 ****, Ex ZS 75 **** and Ex ZS 80 **** consist of the switch type Ex 14***, which is mounted into a light-alloy enclosure with cover out of metal or polyamide of different sizes in order to be protected 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.

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 NC 1 NC / 1 NO 2 NC 2 NC / 2 NO 4 NC 3 NC / 1 NO	
Conductor connection		up to 4 x 0.5 mm ² or 0.75 mm ²	
Ambient temperature and temperature class for pull-wire switches with cover out of polyamide.		- 20 °C up to +65 °C, T6 - 20 °C up to +75 °C, T5 - 20 °C up to +95 °C, T5 and max. 3 A	
Ambient temperature and temperature class for pull-wire switches with cover out of metal.		- 40 °C up to +65 °C, T6 - 40 °C up to +75 °C, T5 - 40 °C up to +95 °C, T5 and max. 3 A	
Ingress protection		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,			



Nomenclature

Ex	ZS 71	*	*	*	*
1	2	3	4	5	6

- 1: Ex pull-wire switch
- 2: Type (Ex ZS 71, Ex ZS 73, Ex ZS 75, Ex ZS 80)
- 3: Contact function
- 4: Actuation or unlocking
- 5: Ambient temperature
- 6: Additional information

Specific Conditions 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.