



# 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](http://www.iecex.com)

Certificate No.: **IECEx PTB 08.0042X** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2008-09-24** Page 1 of 3

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

Electrical Apparatus: **Solenoid switch (Ex magnet safety sensor) Type EEx RC Si 56...**  
Optional accessory:

Type of Protection: **encapsulation (gas), protection by enclosures (dust)**

Marking: **Ex mb II T6 resp. Ex mb II T5**  
**Ex tD A21 IP 67 T80°C resp. Ex tD A21 IP 67 T95°C**

Approved for issue on behalf of the IECEx  
Certification Body:

Dr. Ing. U. Johannsmeyer

Position:

Department head "Intrinsic Safety and Safety of Systems"

Signature:  
(for printed version)

Date:

2008-10-02

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.

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

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 product 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 identity documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-18 : 2004</b> Edition: 2.0	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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/ExTR08.0053/00

Quality Assessment Report:

DE/BVS/QAR06.0023/00



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The magnet safety sensor is a switchgear unit for the monitoring of the position of doors, flaps or other protective devices. The switches are actuated by means of a coded solenoid. The equipment is completely encapsulated.

<u>Electrical data</u>	Maximum voltage	30 V DC
	Maximum switching current	125 mA
		20 mA (LED-variant)

### CONDITIONS OF CERTIFICATION: YES as shown below:

- A fuse must be connected in series to each safety sensor corresponding to its rated current according to IEC 60127-2-1. The fuse may be accommodated inside the associated power supply unit or has to be connected in series separately. The rated voltage of the fuse shall be the same as or higher than the rated voltage specified for the Ex-magnet safety sensor. The breaking capacity of the fuse link shall be the same as or higher than the maximum short-circuit current expected to occur at the place of installation (usually 1500 A).
- For the LED-variant the safety-related maximum values of the switching currents shall be limited to 125 mA resp. 20 mA by additional measures.
- The connecting cable shall be connected inside an enclosure which complies with the requirements of an acknowledged type of protection according to EN 60079-0:2006 resp. EN 61241-0:2006 when the connection carried out inside the hazardous area.

