



# 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 BVS 08.0054X** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2008-12-02** Page 1 of 3

Applicant: **Steute Schaltgeräte GmbH & Co. KG**  
Brückenstraße 91  
32567 Löhne  
Germany

Electrical Apparatus: **Safety-sensor type EEx HS Si 4**  
Optional accessory:


Type of Protection: **protection encapsulation 'm' electrical apparatus, Protection by encapsulation "mD"**

Marking: **Ex mb II T6**  
**Ex mbD 21 T80°C**

Approved for issue on behalf of the IECEx  
Certification Body: **Dr. R. Jockers**

Position: **Head of Certification Body**

Signature:  
(for printed version)

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**02.12.2008**

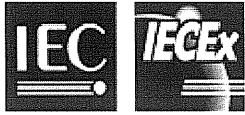
Date:

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.

Certificate issued by:

DEKRA EXAM GmbH  
Dinnendahlstrasse 9  
44809 Bochum  
Germany

 **DEKRA**  
DEKRA EXAM GmbH



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Manufacturer: **Steute Schaltgeräte GmbH & Co. KG**  
Brückenstraße 91  
32567 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:

|  |   |
|--|---|
| <b>IEC 60079-0 : 2004</b><br>Edition: 4.0  | Electrical apparatus for explosive gas atmospheres - Part 0: General requirements   |
| <b>IEC 60079-18 : 2004</b><br>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><br>Edition: 1    | Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements   |
| <b>IEC 61241-18 : 2004</b><br>Edition: 1.0 | Electrical apparatus for use in the presence of combustible dust - Part 18: Protection by encapsulation "mD"  |

*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/BVS/ExTR08.0071/00

### Quality Assessment Report:

DE/BVS/QAR06.0023/02



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## Schedule

### EQUIPMENT:

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

The Safety-sensor type EEx HS Si 4 is a switch intended to the position monitoring of doors, flaps or other safety devices. The activation of the Safety-sensor will be made by coded solenoids.

The connection of this Safety-sensor is constructed with permanently connected cable.

The length of the cable is up to 15 m.

### Ratings:

#### Electrical data:

Nominal voltage 24 V d.c.

Maximum input voltage range 10 ... 30 V d.c.

#### Thermal data:

Ambient temperature range  $-20\text{ °C} \leq T_a \leq +60\text{ °C}$

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

#### Special conditions for safe use:

- 1 The maximum prospective short-circuit fault current must not exceed 50 A.
- 2 The cable shall be fixed installed and connected inside a certified enclosure with a recognized type of protection.