



# 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 11.0030X issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2011-04-14** Page 1 of 3

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

Electrical Apparatus: **Safety guard control type Ex STM 295 ....**  
*Optional accessory:*

Type of Protection: **Flameproof enclosure 'd', Construction, test and marking of type of protection encapsulation 'm' electrical apparatus, Equipment protection by increased safety "e", Protection by enclosures "tD"**

Marking: **Ex demb IIC T4**  
**Ex tD A21 IP64 T100°C**

*Approved for issue on behalf of the IECEx  
Certification Body:*

Dr. Franz Eickhoff

*Position:*

Deputy Head of Certification Body

*Signature:  
(for printed version)*

*Date:*

2011-04-14

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:

**DEKRA EXAM GmbH**  
Dinnendahlstrasse 9  
44809 Bochum  
Germany

**DEKRA**  
DEKRA EXAM GmbH



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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 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> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2003</b> Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
<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 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
<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/BVS/ExTR11.0048/00](#)

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

The safety guard control type Ex STM 295 ... is manufactured to meet the requirements of the type of protection Increased Safety 'e' and is equipped with both a switch insert of type Ex 95 ... (DMT 00 ATEX E093 U / DE/BVS/ExTR07.0014.00) which meets the requirements of the type of protection Flameproof Enclosure 'd', and a solenoid for the type of protection Encapsulation 'm'. The safety guard control is suitable for use in potentially explosive atmospheres where combustible gas or dust is present and for use in an ambient temperature range of -20 °C to +55 °C.

#### Parameters

Ambient temperature range	-20 °C to +55 °C
Rated supply voltage	DC 24 V +/- 10%
Rated switching voltage	AC 250 V, AC 15 DC 230 V, DC 13
Permitted switching capacity	3 A, AC 0.25 A, DC
Power input	> 2.5 VA (permanent operation) max. 47 VA (for 250 ms)
Rated connecting capacity	1.5 mm <sup>2</sup>
IP degrees of protection	IP 64
Maximum no. of switching operations	10 <sup>6</sup>
Duty cycle and maximum switches/hour	100% ED, max. 1200 switches/h

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

If no external pre-fuse with a switching capacity of 1,500 A minimum is used, the prospective short-circuit current of the power source has to be limited to the switch-off capacity of the internal fuse which is 50 A.

The switch insert is limited to a mechanical life cycle of 10<sup>6</sup> switching operations after which it has to be replaced.