



# 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 07.0018X Issue No: 2 Certificate history:  
Status: Current Issue No. 2 (2019-02-27)  
Date of Issue: 2019-02-27 Page 1 of 5 Issue No. 1 (2013-04-09)  
Issue No. 0 (2007-09-05)  
Applicant: **Steute Technologies GmbH & Co. KG**  
Brückenstraße 91  
32584 Löhne  
Germany  
Equipment: **Solenoid interlock type Ex AZ\* 415\*\*\* and type Ex AZ\* 415\*\*\*-\***  
*Optional accessory:*  
Type of Protection: **Equipment protection by flameproof enclosures "d", Equipment protection by encapsulation "m", Equipment dust ignition protection by enclosure "t", Equipment protection by increased safety "e"**  
Marking:  
Ex demb IIC T6/T5 Gb  
Ex tb IIIC T80°C/T95°C Db IP67 (type Ex AZ\* 415\*\*\*)  
Ex tb IIIC T80°C/T95°C Db IP64 (type Ex AZ\* 415\*\*\*-\*)

Approved for issue on behalf of the IECEx  
Certification Body:

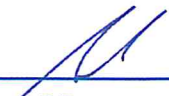
Jörg Koch

Position:

Head of Certification Body

Signature:  
(for printed version)

Date:

  
27.2.19

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 Testing and Certification GmbH**  
Certification Body  
Dinnendahlstrasse 9  
44809 Bochum  
Germany

 **DEKRA**  
On the safe side.



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Manufacturer: **Steute Technologies 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 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 : 2007-10</b> Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
<b>IEC 60079-1 : 2007-04</b> Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-18 : 2009</b> Edition:3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
<b>IEC 60079-31 : 2008</b> Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
<b>IEC 60079-7 : 2006-07</b> Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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/ExTR07.0022/01

Quality Assessment Report:

DE/BVS/QAR06.0023/11



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## Schedule

### EQUIPMENT:

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

#### Subject and type

Solenoid interlock type Ex AZ\*<sup>1)</sup> 415\*\*\*<sup>2)</sup> and type Ex AZ\*<sup>1)</sup> 415\*\*\*<sup>2)</sup>\_\*<sup>3)</sup>

1) Type of actuation

M : Coil (actuation magnet)

P : Pneumatic

2) Not relevant for explosion safety

3) Extensions (the solenoid interlock with extensions has an ingress protection of IP64)

TE : Emergency release

TEI : Emergency release mounting inside

FE : Manual release

FE/TE : Manual release / Emergency release

#### Description

The solenoid interlock type Ex AZM 415\*\*\*-\* is designed in type of protection increased safety "e" and is equipped with a switch insert in type of protection flameproof enclosure "d" and with a coil (actuation magnet) designed in type of protection encapsulation "m".

The solenoid interlock type Ex AZP 415\*\*\*-\* is equipped with a pneumatic actuation.

The ingress protection of type Ex AZ\* 415\*\*\* is IP67.

The ingress protection of type Ex AZ\* 415\*\*\*-\* is IP64 (solenoid interlock with extensions).

For a further differentiation the three asterisks in the type designation will be replaced regarding actuation and contact function.

The solenoid interlock is suitable for the application in areas potentially hazardous by combustible gases or dusts.

To be continued on page 4

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

#### Special conditions for safe use

If no external fuse is used with a switching capacity of at least 1,500 A the maximum possible short circuit current of the feeding source has to be limited to the breaking capacity of the internal fuse of 50 A.

There are no risks of electrostatic discharges for dusts with a minimum ignition energy above 1 mJ.



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## EQUIPMENT (continued):

### Ratings

#### Electrical ratings

Rated operating voltage (coil, actuation magnet )	DC 24	V
Rated switching voltage	DC 230 AC 250	V V
Rated switching current	DC 0.25 AC 6	A A
Utilization category	DC 13 AC 15	
Rated connecting capacity (min.)	0.75	mm <sup>2</sup>

#### Thermal ratings

Ambient temperature range	Temperature class	Surface temperature
-20 °C up to +40 °C	T6	T80 °C
-20 °C up to +55 °C	T5	T95 °C

#### Pressure ratings (only for type Ex AZP 415\*\*\* and Ex AZP 415\*\*\*-\*)

Rated operating pressure 3 to 7 bar



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

The name of the company was updated and the latest issue of the QAR was inserted.  
No further changes were made.