



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX EPS 14.0064X** Page 1 of 4 Certificate history:  
Issue 0 (2014-09-29)

Status: **Current** Issue No: 1

Date of Issue: 2019-10-07

Applicant: **Schienle Magnettechnik & Elektronik GmbH**  
In Oberwiesen 3  
88682 Salem-Neufrach  
Germany

Equipment: **Explosion protected solenoid series: EX18 046 XXXX**

Optional accessory:

Type of Protection: **Protection by encapsulation "mb", increased safety "e", protection by enclosure "tb"**

Marking: AC version  
Ex mb I Mb  
Ex mb IIC T4, T5, T6 Gb  
Ex mb IIIC T135°C, T100°C, T85°C Db  
DC version  
Ex e mb I Mb  
Ex e mb IIC T4, T5, T6 Gb  
Ex tb IIIC T135°C, T100°C, T85°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Holger Schaffer**

Position:

Manager certification

Signature:  
(for printed version)

07.10.2019

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.

Certificate issued by:

**Bureau Veritas Consumer Products Services Germany GmbH**  
Businesspark A96  
86842 Türkheim  
Germany





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Manufacturer: **Schienle Magnettechnik & Elektronik GmbH**  
In Oberwiesen 3  
88682 Salem-Neufrach  
Germany

Additional  
manufacturing  
locations:

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 equipment 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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-18:2017** Explosive atmospheres - Part 18: Protection by encapsulation "m"  
Edition:4.1

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with 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/EPS/EXTR14.0049/01

Quality Assessment Report:

DE/IBE/QAR09.0001/04



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**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Explosion protected solenoid type EX18 046 XXXX is an electromagnetic coil system which is used in the industry for linear or proportional switching of a valve or mechanical devices. The electrical energy is transformed via electromagnetic energy to a mechanical force. That linear movement is used for switching valves or other similar designed systems.

Electrical data:

Rated voltage:	12 V - 110 V DC
	110 V - 230 V AC
Rated power:	10 W - 18 W

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

Ambient temperature range:

- 40°C < t<sub>amb</sub> < +70°C at temperature class T4 and power P<sub>N</sub>=10W
- 40°C < t<sub>amb</sub> < +55°C at temperature class T5 and power P<sub>N</sub>=10W
- 40°C < t<sub>amb</sub> < +45°C at temperature class T6 and power P<sub>N</sub>=10W
- 40°C < t<sub>amb</sub> < +60°C at temperature class T4 and power P<sub>N</sub>=18W



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**  
Design changes, change of IP protection class and gas group.