



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

Certificate No.: **IECEX EPS 14.0064X** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 2 [Issue 1 \(2019-10-07\)](#)
[Issue 0 \(2014-09-29\)](#)
Date of Issue: 2021-05-17
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)

Date:
(for printed version)

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 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
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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/ExTR14.0049/02](#)

Quality Assessment Report:

[DE/EPS/QAR19.0010/03](#)



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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_{amb} < +70°C at temperature class T4 and power P_N=10W
- 40°C < t_{amb} < +55°C at temperature class T5 and power P_N=10W
- 40°C < t_{amb} < +45°C at temperature class T6 and power P_N=10W
- 40°C < t_{amb} < +60°C at temperature class T4 and power P_N=18W



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New QAR (Bureau Veritas)