



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

Certificate No.: IECEx IBE 19.0008

Issue No: 0

Certificate history:

Issue No. 0 (2019-04-15)

Status: **Current**

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Date of Issue: **2019-04-15**

Applicant: **Magnet-Schultz GmbH & Co. KG**
Allgäuer Straße 30
87700 Memmingen
Germany

Equipment: **Valve solenoid**

Optional accessory: *Type GBKE 010 S01...*

Type of Protection: **Intrinsic safety "i"**

Marking:

Ex ib IIC T4 Gb

-5 °C ≤ Ta ≤ +55 °C

Approved for issue on behalf of the IECEx
Certification Body:

Dipl.-Ing. Alexander Henker

Position:

Head of Certification Body

Signature:
(for printed version)

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](http://www.iecex.com).

Certificate issued by:

IBExU Institut für Sicherheitstechnik GmbH
Certification Body
Fuchsmühlenweg 7
09599 Freiberg
Germany





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Manufacturer: **Magnet-Schultz GmbH & Co. KG**
Allgäuer Straße 30
87700 Memmingen
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:

IEC 60079-0 : 2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0
IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

*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/IBE/ExTR18.0045/00](#)

Quality Assessment Report:

[DE/IBE/QAR11.0002/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The valve solenoid type GBKE 010 S01... is applied as actuator for pneumatic applications in potentially explosive gas atmospheres of zone 1. The solenoid consists of a magnetic body and different types of valve parts (not relevant for explosion protection). The magnetic body is implemented in type of protection "i" (intrinsic safety). It contains a winding and two freewheeling diodes connected in parallel for limitation of interrupting transient overvoltage. Winding and diodes are completely over-molded by PPS for exclusion of explosive atmosphere. Electrical connection of the magnetic body is realized via an external plug and socket connector according to EN 61076-2-101 (model E). A suitable connection cable with mating connector must be provided by the user.

Technical data

Nominal input voltage	Un	12 V DC or 24 V DC (depends on type)
Maximum input voltage	Ui	30 V DC
Maximum input current	Ii	200 mA
Maximum input power	Pi	0.68 W
Maximum internal inductance	Li	negligible
Maximum internal capacitance	Ci	negligible
Duty cycle	ED	S1 (100 %)
Ambient temperature	Ta	-5 °C...+55 °C

Multiple valve solenoids can be assembled on one valve manifold (see manufacturer's instructions for details).

SPECIFIC CONDITIONS OF USE: NO