



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 EPS 14.0052X Issue No: 1 Certificate history:
Status: Current Page 1 of 4 Issue No. 1 (2016-01-03)
Date of Issue: 2016-01-03 Issue No. 0 (2014-07-25)
Applicant: Schischek GmbH
Mühlsteig 45 – Gewerbegebiet Süd 5, 90579 Langenzenn
Germany
Electrical Apparatus: Magnetic clamp, type EXM-650/1300/2000
Optional accessory:
Type of Protection: encapsulation "m", protection by enclosure "t"
Marking:
Ex mb IIC T6 Gb
Ex tb IIIC T80°C Db IP65

Approved for issue on behalf of the IECEx
Certification Body:

Dieter Zitzmann

Position:

Certification manager

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:

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





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Manufacturer: Schischek GmbH
Mühlsteig 45 – Gewerbegebiet Süd 5, 90579 Langenzenn
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 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:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-18 : 2009 Edition:3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

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/EPS/ExTR14.0054/01

Quality Assessment Report:

DE/BVS/QAR07.0009/07



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

If electric voltage is available, the magnetic clamp generates a holding force by means of electromagnetic fields. The tripping overvoltage is limited by integrated Zener diodes. Since the holding force will be lost once the voltage is interrupted, suitable mechanical devices, such as springs or levers, may be used to realize, inter alia, safe positions.

Type name	EXM-650	EXM-1300	EXM-2000
Type of current	D.C	D.C	D.C
Rated voltage	24 V	24 V	24 V
Rated current	0.045 A	0.065 A	0.160 A
Limit rating	1 W	1,5 W	3.7 W
Max ambient temperature	55 °C	55 °C	55 °C
Temperature class	T6	T6	T6
Individual installation	yes	yes	yes
Butt mounting	no	no	no

CONDITIONS OF CERTIFICATION: YES as shown below:

A fuse corresponding to the magnet's rated current (max. $3xI_B$ in accordance with IEC 60127-2-1) or a motor protecting switch with short-circuit and thermal instantaneous tripping (adjusted to rated current) shall be connected in series to each magnet. For very low rated currents the fuse with the lowest voltage rating according to the IEC-standard mentioned above will be sufficient. This fuse may be housed inside the associated power supply unit or has to be connected in series separately. The rated voltage of the fuse shall be equal to or higher than, the maximum short-circuit current expected to occur at the respective location (normally 1500A).

For all D.C.-type magnets, the maximum permissible ripple is 20 %.

Ambient temperature range: -20°C to +55°C.



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

Raising the IEC 60079-31 to the new standard state and implementation of additional testing report.