(1) EC-Type Examination Certificate

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – **Directive 94/9/EC**

(3) EC Type Examination Certificate Number

EPS 14 ATEX 1 713 X **Revision 1**

(4) Equipment: Magnetic clamp type EXM-650/1300/2000

(5) Manufacturer: Schischek GmbH

(6) Address: Mühlsteig 45 – Gewerbegebiet Süd 5, 90579 Langenzenn, Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, Notified Body No. 2004 in accordance with Article 9 of the Council Directive 94/9/EC of March 23rd 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential report 14TH0280.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013 **EN 60079-18:2009**

EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design and the construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

(12) The marking of the equipment shall include the following:

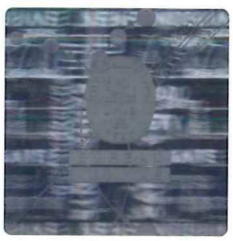
II 2G Ex mb IIC T6 Gb

II 2D Ex tb IIIC T80°C Db IP65

Certification department of explosion protection

D. Zitzmann

Nuremberg, 2016-02-01



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(13) # Annex

(14) **EC-Type Examination Certificate EPS 14 ATEX 1 713 X** **Revision 1**

(15) Description of equipment:

If electric voltage is available, the magnetic clamp generates a holding force by means of electro-magnetic 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 levels, may be used to realize, inter alia, safe positions.

Electrical data:

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
Battery mounting	no	no	no

(16) Test report: 14TH0280

(17) Special conditions for safe use:

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 1 500A).

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

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

(18) Essential health and safety requirements:

Met by standards.

Certification department of explosion protection Nuremberg, 2016-02-01

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