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 17.0065X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 3	Issue 2 (2018-10-30) Issue 1 (2018-03-27) Issue 0 (2018-01-22)
Date of Issue:	2025-06-06		

Applicant: **Schischek GmbH**
Mühlsteig 45, Gewebegebiet Süd 5
90579 Langenzenn
Germany

Equipment: **Ex Max-*****

Optional accessory:

Type of Protection: **flameproof enclosures "db", intrinsic safety "ib", protection by enclosure "tb"**

Marking: Ex db [ib Gb] IIC T6, T5, T4 Gb
Ex tb [ib Db] IIIC T80°C, T95°C, T130°C Db

Approved for issue on behalf of the IECEx Certification Body:

Position: **Head of Certification**

Signature: **Ulrich Feike**
(for printed version)

Date: 2025-06-06
(for printed version)

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

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

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Certificate No.: **IECEx EPS 17.0065X**

Date of issue: 2025-06-06

Issue No: 3

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

Manufacturing locations: **Schischek GmbH**
Mühlsteig 45, Gewerbegebiet Süd 5
90579 Langenzenn
Germany

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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1:2014 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-31:2022 Edition:3.0	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"

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 Reports:

DE/EPS/ExTR17.0063/00
DE/EPS/ExTR17.0063/01
DE/EPS/ExTR17.0063/02
DE/EPS/ExTR17.0063/03

Quality Assessment Report:

DE/BVS/QAR07.0009/18

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The actuator type ExMax-*** consists of a flameproof enclosure containing a brushless DC motor with actuator shaft, control electronics and an optional potentiometer with shaft. The two shafts represent flameproof joints. All electronics is encapsulated in casting compound in order to reduce surface temperatures and separation distances and to exclude explosive atmospheres. The flameproof enclosure consists of a top and a bottom part that are sealed with cemented joints. It is mounted in a protective housing with additional mechanical components such as a gearing mechanism and a spring (option). The mechanical parts do not form part of this type approval however the resistance to impact test was performed on this protective enclosure. Five components, a two-color status LED, a push-button and a rotary switch (both for actuator parametrisation), an RS232 connector (for factory-programming) and an EEXi contact (for connection of a temperature trigger = option "BF") protrude from the encapsulation and flameproof enclosure into the explosive atmosphere. They are intrinsically safe components. Electrical connection is done by means of a permanently-connected cable with flying leads.

For coated housings with a layer thickness of more than 0.2 mm, Ex-marking IIB can be used.

SPECIFIC CONDITIONS OF USE: YES as shown below:
For repair of the flameproof joints due regard must be given to the structural specifications provided by the manufacturer. Repair on the basis of the values in tables 2 and 3 of IEC 60079-1 is not accepted.

The actuator shall be only used together with certified enclosure provided by Schischek.

Only for coated enclosure - Warning of electrostatic discharge, see operating instructions.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New special condition of use (Electrostatic charges on external non-metallic materials)

and update the standards.

Annex:

IECEx EPS 17.0065 - Annex_3.pdf

Electrical data:

Power supply: terminals 1-5 (X1, XA)

Nominal voltage U_o/U	up to	24- 240 V
Rated voltage	max.	240 V
Rated current	max.	2.5 A

Option –S terminals 1-6 (XB)

Nominal voltage U_o/U	up to	24- 230 V
Rated voltage	max.	240 V
Rated current	max.	5.0 A

Option –Y terminals 1-6 (X2, XB)

Nominal voltage U_o/U	up to	24 V
Rated voltage	max.	24 V
Rated current	max.	30 mA

Ambient temperature

T6	-40 °C up to 40 °C
T5	-40 °C up to 50 °C
T4	-40 °C up to 60 °C

Intrinsic safe circuits

Option -BF terminals 1,2 (EEXi output, JP101)

U_o	5.88 V
Io	24.75 mA
Po	0.037 W

Linear circuit
Li negligible
Ci negligible
Maximum of external lumped capacitance and inductance:

	Ex ib		
	IIC	IIB	IIA
Lo	50 mH	50 mH	50 mH
Co	43 µF	1000 µF	1000 µF

RS232 terminals 1-6 (EEXi output, SV101)

U_o	5.88 V
Io	119 mA
Po	0.7 W

Linear circuit
Li negligible
Ci negligible

Maximum of external lumped capacitance and inductance:

	Ex ib		
	IIC	IIB	IIA
Lo	2 mH	2 mH	2 mH
Co	43 µF	1000 µF	1000 µF