



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

Certificate No.: **IECEX EPS 12.0028X** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 5 Issue 4 (2023-09-20)  
Date of Issue: 2025-11-07 Issue 3 (2017-02-16)  
Applicant: **Schischek GmbH** Issue 2 (2015-08-25)  
Mühlsteig 45 Issue 1 (2014-09-17)  
90579 Langenzenn Issue 0 (2012-10-06)  
Germany  
Equipment: **Controller type ExReg-... and sensors type ExPro-C...**  
Optional accessory:  
Type of Protection: **intrinsic safety "i", protection by enclosure "tb", increased safety "eb", protection by encapsulation "mb"**  
Marking: Ex eb mb ib [ia Ga] IIC T6 Gb  
Ex tb ib [ia Da] IIIC T80°C Db IP66  
-20 °C < Tamb < +50 °C

Approved for issue on behalf of the IECEx  
Certification Body:

Position:

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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

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





# IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 12.0028X**

Page 2 of 4

Date of issue: 2025-11-07

Issue No: 5

Manufacturer: **Schischek GmbH**  
Mühlsteig 45  
90579 Langenzenn  
**Germany**

Manufacturing locations: **Schischek GmbH**  
Mühlsteig 45  
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 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

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/ExTR12.0036/05](#)

Quality Assessment Report:

[DE/BVS/QAR07.0009/18](#)



# IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 12.0028X**

Page 3 of 4

Date of issue: 2025-11-07

Issue No: 5

## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The controller type ExReg is used for the control of processes in hazardous locations of zone 1 or zone 21 together with linear or rotary drives. The input values for pressure (ExReg-P, ExReg-V), humidity and temperature (ExReg-D mit ExPro-C) are measured by internal sensors. The appropriate sensors ExPro-C... for temperature and humidity can be used with different length, filters and connection methods. The intended use of the sensors ExPro is limited for category 2G/D and 3G/D. The internal and external sensors are supplied by intrinsic safe circuits. Also the display and buttons are part of intrinsic safe circuit. External sensors can be connected to the intrinsic safe "ia" outputs of version ExReg-A-... for use inside zone 0/20, depending that the sensor has a category 1 approval. The supply terminals and terminals for sensor output and external devices are protected by type of protection "increased safety e". The main part of equipment including fuses and temperature fuses is protected by type of protection "encapsulation m". Also the intrinsic safe part is potted for exclusion of gas. Temperature range is from -20 °C to +50 °C.

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

Electrical data and intrinsic safe values are shown in attached document

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

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



# IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 12.0028X**

Page 4 of 4

Date of issue: 2025-11-07

Issue No: 5

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

New special condition of use (Electrostatic charges on external non-metallic materials).

**Annex:**

[Schi\\_ExReg\\_11TH0450\\_IECEX EPS 12.0028\\_05\\_Attachment.pdf](#)



## EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The controller type ExReg is used for the control of processes in hazardous locations of zone 1 or zone 21 together with linear or rotary drives. The input values for pressure (ExReg-P, ExReg-V), humidity and temperature (ExReg-D mit ExPro-C) are measured by internal sensors. The appropriate sensors ExPro-C... for temperature and humidity can be used with different length, filters and connection methods. The associated sensors of type ExPro may be applied in hazardous areas of category 2G or 2D. Different sensor variants are available corresponding to the usage site. The internal and external sensors are supplied by intrinsic safe circuits. Also the display and buttons are part of intrinsic safe circuit. External sensors can be connected to the intrinsic safe "ia" outputs of version ExReg-A-.. for use inside zone 0/20, depending that the sensor has a category 1 approval. The supply terminals and terminals for sensor output and external devices are protected by type of protection "increased safety e". The main part of equipment including fuses and temperature fuses is protected by type of protection "encapsulation m". Also the intrinsic safe part is potted for exclusion of gas. Temperature range is from -20°C to +50°C.

### Elektrical data:

**Supply of device and drive:** U = 24 V AC/DC  $\pm$ 20 %, AC 50...60 Hz  
(Terminal 1,2 and 4,5) U<sub>m</sub> = 30 V

**Switch contact:** U = 24 V AC/DC  $\pm$ 20 %, AC 50...60 Hz  
(Terminal 2,3) I<sub>max</sub> = 0.5 A  
P<sub>max</sub> = 0.5 W  
U<sub>m</sub> = 30 V

**Drive analog Set Point:** I = 4...20 mA  
(Terminal 6,7) U<sub>m</sub> = 30 V

**Drive analog value:** U = 0...10 V  
(Terminal 8,7) U<sub>m</sub> = 30 V

### **ExReg-P ; ExReg-D ; Ex-Reg-V**

**Controller Set Point Analog Input:** U = 0...10 V  
(Terminal 9, 10)

### **ExReg-P-A ; ExReg-D-A ; Ex-Reg-V-A**

**Drive position analog output:** U = 0...10 V  
(Terminal 9, 10)



**Controller value analog output:** U = 0...10 V  
(Terminal 11, 12)

**Controller set point analog input:** U = 0...10 V  
(Terminal 13, 12)

**ExReg-P-B ; ExReg-D-B ; ExReg-V-B**

**BUS A1, B1** U<sub>m</sub> = 7 V  
(Terminal 10, 11) P<sub>max,in</sub> = P<sub>max,out</sub> = 410 mW

**BUS A2, B2** U<sub>m</sub> = 7 V  
(Terminal 12, 13) P<sub>max,in</sub> = P<sub>max,out</sub> = 410 mW

**ExReg-A**

**Sensor value analog input** U = 0...10 V  
(Terminal 9, 10)

**Controller value analog output** U = 0...10 V  
(Terminal 11, 12)

**Controller setpoint analog input** U = 0...10 V  
(Terminal 13, 12)

**Connections in ex-i**

**ExReg-P** Type of protection Ex ia IIC  
Digital internal pressure sensor U<sub>o</sub> = 7 V  
I<sub>o</sub> = 83 mA  
P<sub>o</sub> = 415 mW

**ExPro-C, ExReg\_D** Type of protection Ex ia IIC  
Digital internal temperature and U<sub>o</sub> = 7 V  
humidity sensor I<sub>o</sub> = 125 mA  
P<sub>o</sub> = 219 mW

**ExReg-A** Type of protection Ex ia/ib IIC  
External sensors in two- or three- wire U<sub>o</sub> = 7 V  
connection I<sub>o</sub> = 9 mA  
P<sub>o</sub> = 15 mW  
Linear characteristic  
Ci negligible  
Li negligible