



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 14.0074X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2017-01-25)
Date of Issue:	2025-10-28		Issue 1 (2015-07-30)
Applicant:	Schischek GmbH Mühlsteig 45 90579 Langenzenn Germany		Issue 0 (2015-04-21)
Equipment:	Explosion protected electrical sensor ExBin-...		
Optional accessory:			
Type of Protection:	Increased safety "e", intrinsic safety "i", encapsulation "m", protection by housing "t"		
Marking:	Ex e mb [ia Ga] IIC T6...T4 Gb		
	Ex tb [ia Da] III C T80°C...T130°C Db IP66		
	Ambient temperature range: see Annex		

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 or use of this QR Code.



Certificate issued by:

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





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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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2014 Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
Edition:4.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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/ExTR14.0075/03](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The explosion protected electrical sensor, type ExBin-... is used for the measurement of pressures, humidity and/or temperatures and for the conversion of measurements into switching signals. The equipment is intended for the application inside the hazardous area.

The ExBin-... is used stationary in a hazardous area.

The sensor circuits of the ExBin-... can be used in hazardous areas of the category 1G and 1D if the related sensors comply with these requirements.

The Sensors type ExPro-B.. can be used in hazardous areas of the categories 2G and 2D and are available in different technical designs according to the respective application site.

The correlation between the explosion group and the permissible outer reactances can be obtained from the respective table.

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

Electrical data refer to attachment.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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)

Annex:

[Schi_Ex BIN_IECEX_14TH0062_EPS 14.0074_3 - Attachment.pdf](#)



EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The explosion protected electrical sensor, type ExBin-.. is used for the measurement of pressures, humidity and/or temperatures and for the conversion of measurements into switching signals. The equipment is intended for the application inside the hazardous area.

The ExBin-..is used stationary in a hazardous area.

The sensor circuits of the ExBin-.. can be used in hazardous areas of the category 1G and 1D if the related sensors comply with these requirements.

The Sensors type ExPro-B.. can be used in hazardous areas of the categories 2G and 2D and are available in different technical designs according to the respective application site.

The correlation between the explosion group and the permissible outer reactances can be obtained from the respective table.

Electrical data:

Supply..... (Terminals 1, 2)	U = 24 VAC/DC \pm 20 %, 50 ..60 Hz U _m = 30 V
Auxiliary contacts..... (Terminals 3...4)	U = 24 VAC/DC \pm 20 %, 50 ..60 Hz U _m = 30 V
Relay contacts..... (Terminals 5...10)	V AC = 250 V / 0,1 A 125 VA / 0,2 A 30 V / 0,5 A
	resp.
	V DC = 220 V / 0,1 A 110 V / 0,2 A 30 V / 0,5 A

The relay contacts are safely galvanically separated from the other circuits up to a maximum value of the rated voltage of 375 V.



Attachment to Certificate
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Sensor circuits in ignition protection intrinsic safety Ex ia IIC

(ExBin-A., Ex-Bin-FR)

Maximum values:

$U_0 = 7,14 \text{ V}$
 $I_0 = 8 \text{ mA}$
 $P_0 = 15 \text{ mW}$

	IIC	IIB	IIA
L_0	5 mH	10 mH	20 mH
C_0	1,5 μF	6,7 μF	8,6 μF

C_i = negligible small
 L_i = negligible small

Sensor circuits in ignition protection intrinsic safety Ex ia IIC

(ExBin-D..)

Maximum values:

$U_0 = 7,9 \text{ V}$
 $I_0 = 6,4 \text{ mA}$
 $P_0 = 12,7 \text{ mW}$

	IIC	IIB	IIA
L_0	5 mH	10 mH	20 mH
C_0	1,5 μF	6,7 μF	8,6 μF

C_i = negligible small
 L_i = negligible small



Sensor circuits NAMUR

in ignition protection intrinsic safety Ex ia IIC

(ExBin-N..)

Maximum values:

$U_0 = 9,6 \text{ V}$
 $I_0 = 9,7 \text{ mA}$
 $P_0 = 24 \text{ mW}$

	IIC	IIB	IIA
L_0	5 mH	10 mH	20 mH
C_0	0,84 μF	3,8 μF	4,9 μF

$C_i = \text{negligible small}$
 $L_i = \text{negligible small}$

Sensor circuits

in ignition protection intrinsic safety Ex ia IIC

(ExPro-B..)

Maximum values:

$U_i = 9,6 \text{ V}$
 $I_i = 9,7 \text{ mA}$

$C_i = 120 \text{ nF}$
 $L_i = \text{negligible small}$

The intrinsic safe circuits are safely galvanically separated between each other and from the other non-intrinsic circuits up to a maximum of the rated voltage of 30 V.

Operating conditions:



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- Ambient temperature range: -20°C to +50°C
- Do not open when hazardous atmosphere is present.
- Do not open when energized.
- Temperature class (group II) and max. surface temperature (group III) depending on used enclosure type (material):

Modell	Max. ambient temperature:	Max. ambient temperature :
	+40°C	+50°C
ExBin (aluminium enclosure)	T6 (T80°C)	T6 (T80°C)
ExBin (stainless steel enclosure)	T5 (T95°C)	T4 (T130°C)