



# 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.:	<b>IECEx IBE 13.0042</b>	Page 1 of 5	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 2	<a href="#">Issue 1 (2017-12-06)</a> <a href="#">Issue 0 (2013-12-12)</a>
Date of Issue:	2021-02-19		
Applicant:	<b>EUROTEC Antriebszubehör GmbH</b> Bildstock 37 88085 Langenargen <b>Germany</b>		
Equipment:	<b>limit switch box wave</b>		
Optional accessory:	EV...IA* and EA...IA*		
Type of Protection:	<b>intrinsic safety "i"</b>		
Marking:	Ex ia IIC/IIB T6...T4 Gb Ex ia IIIC T80 °C...T110 °C Db		

Approved for issue on behalf of the IECEx  
Certification Body:

**Kai Willamowski**

Position:

**Head of department Certification Body**

Signature:  
(for printed version)

Date:

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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:

**IBExU Institut für Sicherheitstechnik GmbH**  
**Fuchsmühlenweg 7**  
**09599 Freiberg**  
**Germany**





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Manufacturer: **EUROTEC Antriebszubehör GmbH**  
Bildstock 37  
88085 Langenargen  
**Germany**

Additional  
manufacturing  
locations:

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

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/IBE/ExTR13.0043/00](#)

[DE/IBE/ExTR13.0043/01](#)

[DE/IBE/ExTR13.0043/02](#)

Quality Assessment Report:

[DE/EPS/QAR13.0003/07](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The limit switch boxes type EV...IA\* and EA...IA\* consist of separately certified intrinsic safety Ex components or simple apparatus combined housed with terminals in enclosures made of Vestamid or aluminium. The devices are intended for use in potentially hazardous areas, where EPL Gb or Db devices are required. They are supplied by an intrinsically safe power supply of the Category „ia“ or “ib”.

As an alternative to the cable gland, suitable cable glands may also be used for the wave Ex i boxes. Connection elements such as M12 plugs or connectors can be used. These fasteners must comply with the separation distances according to Table 5 of IEC 60079-11. When not in use, the plugs must be sealed with a dust-proof cap.

For the electrical feedthroughs: The following connection values must not be exceeded:

IIC:  $U_i = 28 \text{ V}$ ,  $I_i = 200 \text{ mA}$  / IIB:  $U_i = 30 \text{ V}$ ,  $I_i = 450 \text{ mA}$

## Type extent

EV...IA... wave limit switch box. enclosure off vestamid

EA...IA... wave limit switch box. enclosure off aluminium

EV...IA...-DB... wave limit switch box. enclosure off vestamid with terminal enclosure

EA...IA...-DB... wave limit switch box. enclosure off aluminium with terminal enclosure

EV...IA...-3D... wave limit switch box. enclosure off vestamid with polycarbonate-cap

**SPECIFIC CONDITIONS OF USE: NO**



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## Equipment (continued):

Technical Data The electrical supply data comply with the mounted switches. Following data be used at mechanical gold contact switches and potentiometers:

Supply electric circuit in type of protection Intrinsic Safety Ex ia IIC resp. IIIC

### Gold contact switches

Ui 30 V

Ii 15 mA

Pi 35 mW

Ci, Li negligible

Temperature range -55 °C to +100 °C

### Potentiometer

Ui 13.8 V

Ii 35 mA (temperature class T4)

Ii 10 mA (temperature class T6)

Pi 121 mW

Ci,Li negligible

Temperature range -55 °C to +70 °C



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

Extension of the lower temperature range from -55 °C