



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 IBE 13.0042X	Page 1 of 5	<u>Certificate history:</u>
Status:	Current	Issue No: 4	Issue 3 (2021-08-27)
Date of Issue:	2026-02-05		Issue 2 (2021-03-01)
Applicant:	EUROTEC Antriebszubehör GmbH Bildstock 37 88085 Langenargen Germany		Issue 1 (2017-12-06)
Equipment:	limit switch box		Issue 0 (2013-12-12)
Optional accessory:	wave EV...IA* and wave EA...IA*		
Type of Protection:	intrinsic safety "i"		
Marking:	Ex ia IIC T6...T4 Gb Ex ia 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:
(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.
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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

Manufacturing locations: **EUROTEC Antriebszubehör GmbH**
Bildstock 37
88085 Langenargen
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

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/ExTR13.0043/03](#)

[DE/IBE/ExTR13.0043/01](#)
[DE/IBE/ExTR13.0043/04](#)

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

Quality Assessment Report:

[DE/EPS/QAR13.0003/13](#)



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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 intrinsically safe Ex components or simple apparatus and terminals which are located in enclosures made of Vestamid or aluminium. The devices are intended for use in potentially hazardous areas, where EPL Gb and Db devices are required. They are supplied by an intrinsically safe power supply of the Category "ia" or "ib".

The devices are provided with different indicator options: the already certified indicator (2D/3D/3D1) or the new Tower indicator (marked as – OCT).

As an alternative to the cable gland, suitable connection facilities as M12 plugs or other connectors may also be used for the wave Ex i boxes. These devices shall meet 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: $U_i = 30 \text{ V}$, $I_i = 450 \text{ mA}$

Types

EV...IA... wave limit switch box, enclosure of Vestamid

EA...IA... wave limit switch box, enclosure of aluminium

EV...IA...-DB... wave limit switch box, enclosure of Vestamid with terminal enclosure

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

EV...IA...-3D... wave limit switch box, enclosure of Vestamid with polycarbonate-cap

EA...IA...OCT... wave limit switchbox. enclosure of aluminium with OCT-Tower indicator

EV...IA...OCT... wave limit switchbox. enclosure of Vestamid with OCT-Tower indicator

SPECIFIC CONDITIONS OF USE: YES as shown below:

The permitted ambient temperature range depends on the components used, the version and the temperature class assigned. The values are given in the instructions.

Versions with OCT Tower indicator shall be installed protected against intensive electrostatic charging processes.



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Equipment (continued):

The electrical connection parameter depend on the switches used. The following data apply when mechanical gold contact switches and potentiometers are used:

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

Gold contact switches

Ui 30 V

Ii 52 mA

Pi 120 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)

Introduction of a new visual indicator option, designate "- OCT". The minimum permitted ambient temperature is -25 °C for this version.