# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION
## IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

| | | | |
|---|---|---|---|
| Certificate No.: | IECEx IBE 13.0038 | Issue No: 1 | Certificate history: |
| | | | Issue No. 1 (2016-09-28) |
| Status: | **Current** | Page 1 of 4 | Issue No. 0 (2014-02-03) |
| Date of Issue: | **2016-09-28** | | |

Applicant: **BARTEC GmbH**
Max-Eyth-Straße 16
97980 Bad Mergentheim
**Germany**

Equipment: **Limit monitor Ex Type 07-31A*-****/**** to 07-31E*-****/**** and 07-31M*-****/****

*Optional accessory:*

Type of Protection: **Increased safety, dust ignition protection by enclosure**

Marking:

Ex eb db mb ia/ib IIC T6 or T5 Gb

Ex ia/ib IIC T6 Gb

Ex tb IIIC T90 °C Db

-60 °C/ -55 °C/ -20 °C ≤ Ta ≤ +70 °C

*Approved for issue on behalf of the IECEx Certification Body:* Prof. Dr. Tammo Redeker

*Position:* Head of Certification Body

*Signature:*
*(for printed version)*

*Date:*

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 the Official IECEx Website.

Certificate issued by:

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

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| Manufacturer: | **BARTEC GmbH**<br>Max-Eyth-Straße 16<br>79780 Bad Mergentheim<br>**Germany** | |

Additional Manufacturing location(s):

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 electrical apparatus 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**<br>Edition:6.0 | Explosive atmospheres - Part 0: General requirements |
| **IEC 60079-1 : 2014-06**<br>Edition:7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" |
| **IEC 60079-11 : 2011**<br>Edition:6.0 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" |
| **IEC 60079-18 : 2014**<br>Edition:4.0 | Explosive atmospheres – Part 18: Equipment protection by encapsulation “m” |
| **IEC 60079-31 : 2013**<br>Edition:2 | Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t" |
| **IEC 60079-7 : 2015**<br>Edition:5.0 | Explosive atmospheres – Part 7: Equipment protection by increased safety "e" |

*This Certificate **does not** indicate compliance with electrical 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/IBE/ExTR13.0034/00 DE/IBE/ExTR13.0034/01

Quality Assessment Report:

DE/TUN/QAR06.0017/08

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**Schedule**

**EQUIPMENT:**

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

The Limit Monitor Ex converts mechanical positions of a spindle into electrical signals. It consists of an enclosure in type of protection Increased safety or, for the intrinsically safe version, in industry quality. In the enclosure are build-in transmitters like switches or initiators and other components.

Technical data:

Nominal voltage:

up to 750 V *)

Nominal frequency:

AC 50 Hz / 60 Hz or DC *)

Nominal current:

up to 7 A *)

Ambient temperature range:

-20 °C up to +70 °C

Expanded:

-60 °C / -55 °C up to +70 °C

Degree of protection according to IEC 60529: min. IP 65

*) depending on used components

The values are maximum values. The actual electrical values depend on the electrical equipment incorporated. The manufacturer fixes in the context of these rated values the definite nominal values. He guarantees so the retention of the maximum surface temperature and of the permitted operating temperature of the components.The real ambient temperature range conforms to the allowable temperature range of the used components.

**CONDITIONS OF CERTIFICATION: NO**

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

The device meets the current standards.