

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

Certificate No.: IECEx IBE 15.0029 Issue No: 0 Certificate history:  
Issue No. 0 (2016-06-23)

Status: **Current** Page 1 of 3

Date of Issue: **2016-06-23**

Applicant: **BERNSTEIN AG**  
Hans-Bernstein-Straße 1  
32547 Porta Westfalica  
Germany

Equipment: **Aluminium Junction Box type CA...EX**  
Optional accessory:

Type of Protection: **Increased safety "e", Intrinsic safety "I" and protection by enclosure "t"**

Marking:  
Ex eb IIC T6...T4 Gb  
Ex ia IIC T6...T4 Gb  
  
Ex eb ia IIC T6...T4 Gb  
  
Ex tb IIIC T80 °C...T130 °C Db  
Ex ia IIIC T80 °C...T130 °C Db  
  
-55 °C / -35 °C / -20 °C ≤ T<sub>a</sub> ≤ +40 °C / +55 °C / +90 °C

Approved for issue on behalf of the IECEx  
Certification Body:

Prof. Dr. Tammo Redeker

Position:

Head of Certification Body

Signature:  
(for printed version)

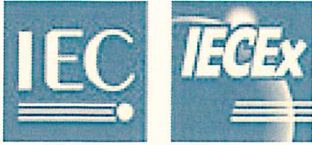
Date:

2016-06-23

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

Certificate issued by:

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



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Date of Issue: 2016-06-23 Page 2 of 3  
Manufacturer: **BERNSTEIN AG**  
Hans-Bernstein-Straße 1  
32547 Porta Westfalica  
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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2015</b> 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/ExTR14.0046/00

#### Quality Assessment Report:

DE/IBE/QAR15.0008/00



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## Schedule

### EQUIPMENT:

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

The Aluminium junction boxes types CA-...Ex can be used stationary in Zone 1 or 2 as well as 21 or 22. The enclosures serve for the connection and distribution of cables and conductors by means of installed terminal blocks.

The junction boxes are provided in different sizes. See Annex for detailed information.

### Technical data:

Rated voltage:	max. 1100 V max. 60 V for intrinsically safe circuits
Rated current:	max. 500 A
Ambient temperature range:	-55 °C up to +90 °C (with silicone gasket) -35 °C up to +40 °C (with EPDM gasket) -20 °C up to +40 °C (with NBR gasket)
maximum ambient temperature in dependence of the temperature class:	+40 °C for T6 +55 °C for T5 +90 °C for T4
Degree of protection (acc. to IEC 60529):	at least IP64 (maximum IP66)
Connection cross-section:	max. 300 mm <sup>2</sup>
Protective ground cross-section:	up to 150 mm <sup>2</sup>

The above listed ratings are maximum values. The actual electrical values depend on the applied terminals. The manufacturer specifies these actual electrical values in the context of the above maximum values to the applicable standards, taken net conditions, mode of operation, category etc. in account.

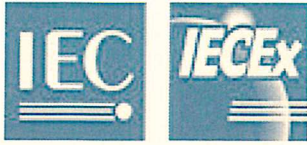
When the temperature under rated conditions is higher than 70 °C at the entry point or 80 °C at the branching point of the conductors, information has to be marked on the equipment exterior to provide guidance to the user on the proper selection of the cable and cable gland.

The used components may be certified to older editions of standards. It is the manufacturer's responsibility to confirm the complying of requirements of current standards.

### CONDITIONS OF CERTIFICATION: NO

### Annex:

Annex\_to\_IECEX\_15.0029.pdf



IECEX  
CERTIFICATE OF CONFORMITY

**IBExU**

ANNEX TO CERTIFICATE No.:

IECEX IBE 15.0029 / ISSUE No.: 0

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type	length	width	depth
CA 060	58 mm	64 mm	36 mm
CA 080	98 mm	64 mm	36 mm
CA 100	150 mm	64 mm	36 mm
CA 130	75 mm	80 mm	57 mm
CA 140	75 mm	80 mm	57 mm
CA 150	125 mm	80 mm	57 mm
CA 160	125 mm	80 mm	57 mm
CA 170	175 mm	80 mm	57 mm
CA 180	175 mm	80 mm	57 mm
CA 190	250 mm	80 mm	57 mm
CA 210	122 mm	122 mm	80 mm
CA 215	122 mm	122 mm	90 mm
CA 220	122 mm	122 mm	80 mm
CA 230	220 mm	122 mm	80 mm
CA 235	220 mm	122 mm	90 mm
CA 240	220 mm	122 mm	80 mm
CA 250	360 mm	122 mm	80 mm
CA 270	160 mm	160 mm	90 mm
CA 280	160 mm	160 mm	90 mm
CA 290	260 mm	160 mm	90 mm
CA 300	260 mm	160 mm	90 mm
CA 310	360 mm	160 mm	90 mm
CA 330	560 mm	160 mm	90 mm
CA 350	200 mm	230 mm	110 mm
CA 360	200 mm	230 mm	180 mm
CA 370	280 mm	230 mm	110 mm
CA 380	330 mm	230 mm	110 mm
CA 390	330 mm	230 mm	180 mm
CA 400	400 mm	230 mm	109 mm
CA 420	600 mm	230 mm	110 mm
CA 450	402 mm	310 mm	110 mm
CA 460	402 mm	310 mm	180 mm
CA 470	600 mm	310 mm	110 mm
CA 480	600 mm	310 mm	180 mm