



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 21.0023X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2021-10-15
Applicant: **BD | SENSORS GmbH**
BD-Sensors-Straße 1
95199 Thierstein
Germany
Equipment: **Digital field display AX15-PA440**
Optional accessory:
Type of Protection: **intrinsic safety**
Marking: Ex ia IIB T4 Gb

Approved for issue on behalf of the IECEx
Certification Body:

Kai Willamowski

Position:

Head of department 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 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: **BD | SENSORS GmbH**
BD-Sensors-Straße 1
95199 Thierstein
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 60079-0:2017 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 Report:

[DE/IBE/ExTR21.0030/00](#)

Quality Assessment Report:

[DE/IBE/QAR19.0004/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Digital field display AX15 serves in intrinsic safety electrical plants for indication of a 4...20 mA two-wire sensor signal, and produces up to 2 PNP-Open collector switching outputs for a limiting value control. The power supply and evaluation of the switching exits are carried out by associated apparatus certified separately.

Ambient temperature range from -20 °C to +70 °C

Supply and signal electric circuit in type of protection intrinsic safety Ex ia IIC

Supply (VS+ and VS-, U_i, U_o 28 V DC

SP1 and SP2) I_i, I_o 93 mA

P_i 660 mW

effective inner capacity C_i negligible

effective inner inductivity L_i negligible

SPECIFIC CONDITIONS OF USE: YES as shown below:

- No energy may be supplied from the outside into the active switching exits.
- The safety and assembly notes contained in the operating instructions and the ambient temperature range $-20\text{ °C} \leq T_a \leq +70\text{ °C}$ have to be observed.