

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 NEM 11.0008** Page 1 of 4

Issue No: 4 Status: Current

Date of Issue: 2024-11-21

Autronica Fire and Security AS Applicant:

Bromstadvegen 59 7047 Trondheim

Norway

Equipment: Interface and shunt protection unit.

Optional accessory:

Type of Protection: Intrinsic safety

Marking: [Ex ia Ga] IIC -20°C ≤ Ta ≤ +60°C

> [Ex ia Da] IIIC -20°C ≤ Ta ≤ +60°C

Approved for issue on behalf of the IECEx **Asle Kaastad**

Certification Body:

Position: **Certification Manager**

Signature:

(for printed version)

(for printed version)

- This certificate and schedule may only be reproduced in full.
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 The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate history: Issue 3 (2019-09-19)

Issue 2 (2015-05-22) Issue 1 (2014-10-15)

Issue 0 (2011-05-11)

Certificate issued by:

DNV Product Assurance AS Veritasveien 1 1363 Høvik **Norway**





IECEx Certificate of Conformity

Certificate No.: IECEx NEM 11.0008 Page 2 of 4

Date of issue: 2024-11-21 Issue No: 4

Manufacturer: Autronica Fire & Security AS

Bromstadvegen 59 Trondheim 7047

Norway

Manufacturing Autronica Fire & Security AS

locations: Bromstadvegen 59

Trondheim 7047 **Norway**

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:

NO/NEM/ExTR11.0004/04

Quality Assessment Report:

NO/NEM/QAR10.0005/10



IECEx Certificate of Conformity

Certificate No.: IECEx NEM 11.0008 Page 3 of 4

Date of issue: 2024-11-21 Issue No: 4

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The BZB-500 is an interface and shunt protection unit for interconnection between a certified safety barrier and certified intrinsically safe detectors. The electronic circuit board of the unit contains a non-intrinsically safe section and a section with an intrinsically safe shunt device. The two sections are interconnected with a certified galvanic or diode safety barrier.

SPECIFIC CONDITIONS OF USE: NO



IECEx Certificate of Conformity

Certificate No.: IECEx NEM 11.0008 Page 4 of 4

Date of issue: 2024-11-21 Issue No: 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Update IEC 60079-0 to the latest edition.
- Update marking plate and control drawing to include UKEX marking.
- New additional coatings to circuit boards.
- Correction of zip code.
- Remove UKEX marking from marking labels.
- Remove R29 from BOM.

Annex:

Annex to IECEx NEM 11.0008 issue 4.pdf





ANNEX to IECEx Certificate of Conformity NEM 11.0008 issue 4

Page 1 of 1

ANNEX to Certificate of Conformity.

Description of Equipment or Protective System

The BZB-500 is an interface and shunt protection unit for interconnection between a certified safety barrier and certified intrinsically safe detectors. The electronic circuit board of the unit contains a non-intrinsically safe section and a section with an intrinsically safe shunt device. The two sections are interconnected with a certified galvanic or diode safety barrier.

Type Designation

BZ-500/01: Shunt protection unit and safety barrier

BZ-500: Complete enclosure with terminals, safety barrier and shunt unit

Safety Data

Non Intrinsically safe part Terminals 7, 8, 9, 10, 11, 12 Um=250V

Intrinsically safe part.

Input terminals: Barr.Ex number 1 and 4
Maximum input voltage Ui: 28V
Maximum input voltage Ii: 93mA
Maximum input power Pi: 0,65W

Output terminals: AL_Com/EX, number 3 and 6 Maximum output voltage Uo: 15,75V Maximum output current Io: 63,5mA Maximum output power Po: 0,44W Maximum external capacitance Co: 0,48µF Maximum external inductance Lo: 1,26mH