



# 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 NEM 11.0017X Issue No: 2 Certificate history:  
Status: **Current** Page 1 of 5 Issue No. 2 (2016-05-20)  
Date of Issue: **2016-05-20** Issue No. 1 (2014-09-16)  
Applicant: **Autronica Fire and Security AS** Issue No. 0 (2012-03-08)  
Haakon VII gt. 4  
7483 Trondheim  
**Norway**  
Electrical Apparatus: **Loop driver and detectors**  
*Optional accessory:*  
Type of Protection: **ic**  
Marking:  
Loop driver, BSD-310/N:  
[Ex ic Gc] IIB -20°C ≤ Ta ≤ +70°C  
Detectors, BF-500/N:  
Ex ic IIB T4 Gc -20°C ≤ Ta ≤ +50°C  
Detectors, BF-501, BF-503/N/0100, BF-503/N/0200, BF-503/N/0300, BF-503/N/0400, BF-503/N/0500,  
BN-500/N (input unit), BNB-300, BDH-500/N, BD-501/N, BHH-500/N, BHH-500/S/N and BHH-520/N:  
Ex ic IIB T4 Gc -20°C ≤ Ta ≤ +70°C  
Detector, BF-500V2N:  
Ex ic IIB T4 Gc -30°C ≤ Ta ≤ +50°C  
Detectors, BF-502/N  
Ex ic IIB T4 Gc -25°C ≤ Ta ≤ +70°C

Approved for issue on behalf of the IECEx  
Certification Body:

Asle Kaastad

Position:

Certification Manager, Ex-products

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

Certificate issued by:



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NEMKO  
Gaustadelleen 30  
Oslo N-0314  
Norway





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Manufacturer: **Autronica Fire and Security AS**  
Haakon VII gt. 4  
7483 Trondheim  
**Norway**

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** Explosive atmospheres - Part 0: General requirements  
Edition:6.0  
**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

*This Certificate **does not** indicate compliance with 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:

[NO/NEM/ExTR11.0025/00](#)      [NO/NEM/ExTR11.0025/01](#)      [NO/NEM/ExTR11.0025/02](#)

### Quality Assessment Report:

[NO/NEM/QAR10.0005/00](#)      [NO/NEM/QAR10.0005/05](#)



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## Schedule

### EQUIPMENT:

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

This Certificate covers a detector system that comprises a loop driver unit and detector units for smoke, heat and manual calls. Up to 127 detector units may be connected to one detector loop. The loop driver module is intended for mounting in the AutoSafe Fire Alarm Control panel and connected to the power supply BSS-310A.

The system consists of the following parts: Please see Annex to the certificate.

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. The loop driver module is intended for mounting in the AutoSafe Fire Alarm Control panel and connected to the power supply BSS-310A
2. The loop driver module may only be used in locations, sheltered from dust and water. The degree of protection is IP 30 D BF-500V2N: IP22D without lid and IP24D with lid.
3. The ambient temperature differs from the normal range and is specified in this certificate.
4. The hardware circuit unit type, BNB-300, must be mounted in an enclosure that complies to IEC/EN 60079-0 and IEC/EN 60079-7 or IEC/EN 60079-11.



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

Issue2: Update to the newest editions of the standards, add the manual call point EF-500V2N and remove Bf-300M/N.

**Annex:**

[ANNEX TO IECEX Cert NEM 110017X ISSUE 2.pdf](#)



**ANNEX to IECEx Certificate of Conformity**  
NEM 11.0017X

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## **ANNEX to Certificate of Conformity.**

### **Type Designation**

The systems consists of the following parts:

#### **Loop Driver Module, power supply**

Type: BSD-310/N

Code: [Ex ic Gc] IIB

Ambient temperature: Ta: -20°C to +70°C

### **Safety Data**

The ratio L/R for the loop cable shall not exceed the stated value: Lo/Ro:30μH/Ω

### **Manual Call Point**

Type: BF-500/N, BF-500V2/N

Code: Ex ic IIB T4 Gc

Ambient temperature: Ta: -20°C to +50°C

Type: BF-501/N, BF-503/N/0100, BF-503/N/0200, BF-503/N/0300, BF-503/N/0400,  
BF-503/N/0500, BN-500/N (input unit) and BNB-300

Code: Ex ic IIB T4 Gc

Ambient temperature: Ta: -20°C to +70°C

BF-502/N

Code: Ex ic IIB T4 Gc

Ambient temperature: Ta: -25°C to +50°C

BF-500V2/N

Ambient temperature: Ta: -30°C to +50°C

### **Heat Detector**

Type: BDH-500/N and BD-501/N

Code: Ex ic IIB T4 Gc

Ambient temperature: Ta: -20°C to +70°C

### **Optical Smoke detector**

Type: BHH-500/N, BHH-500/S/N

Code: Ex ic IIB T4 Gc

Ambient temperature: Ta: -20°C to +70°C

### **Multisensor Smoke detector**

Type: BHH-520/N

Code: Ex ic IIB T4 Gc

Ambient temperature: Ta: -20°C to +70°C