

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

[3] EU-Type Examination Certificate Number: **DNV 23 ATEX 03418X** **Issue 0**

[4] Product: **Flame Detector**

[5] Manufacturer: **Autronica Fire and Security AS**

[6] Address: **Bromstadvegen 59
7047 Trondheim
Norway**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Product Assurance AS, notified body number 2460, in accordance with Article 17 and Article 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in item 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: **EN IEC 60079-0:2018 and EN 60079-11:2012**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **II 1 G Ex ia IIC T4 Ga -40°C ≤ Ta ≤ +70°C**

Date of issue:
2024-04-22



Ståle Sandstad
For DNV Product Assurance AS
The Certificate has been digitally signed.
See www.dnv.com/digitalsignatures for info



[13] **Schedule**

[14] **EU-Type Examination Certificate No:** DNV 23 ATEX 03418X Issue 0

[15] **Description of Product**

AutroFlame BG-301-EXIA is an interactive triple IR Flame detector.
The product consists of two PCBA's connected together.
One PCBA includes terminals for external connections.

The detector shall be supplied by the Autronica interface and shunt protection unit, BZ-500, Nemko 03ATEX230. Maximum number of detectors/loop units: 12

See control drawing, Doc-1010935 for connection instructions.

Type designation

BG-301-EXIA

Intrinsically safety parameters

Ui: 15,75V, Ii: 63,5mA, Pi: 0,44W, Li: Neg. Ci: 1,05nF

Cable limitation: maximum total capacitance in the cable, Ccable: 250nF

See also *Description of Product*.

Ambient temperature:

-40°C to +70°C

Routine tests

None

[16] **Report No.:** SC536534

[17] **Specific Conditions of Use**

1. POTENTIAL ELECTROSTATIC CHARGING HAZARD
2. AVOID AN IGNITION HAZARD DUE TO IMPACT OR FRICTION

[18] **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

[19] Drawings and documents

Number	Title	Rev.	Date
Doc-1005533	BG-301-EXIA TYPE MARKINGS	4	07.03.2024
Doc-1009807	ATEX MID-TIER FLAME DETECTOR EXPLODED VIEW	3	04.09.2023
Doc-1010935	Control Drawing/User Manual Technical specifications and instructions	4	19.12.2023
116-100002193	Bill of Material Communication Board / Agency BOM for 116-100002193	3.2	21.11.2023
Doc-1005454	BWA-1201 Conformal coating drawing	2	03.01.2023
Doc-1005010	AutoFlame AL_Com Socket Board BWA-1201	4	18.01.2023
Doc-1005282	BWA-1200 PCB Gerber	7	16.11.2023
Doc-1005283	BWA-1200 PCB Spec	7	16.11.2023
Doc-1005285	BWA-1200 Assembly drawing	5	14.08.2023
116-100002192	Bill of Material Detector Board / Agency BOM for 116-100002192	2.3	08.04.2024
Doc-1004848	AutoFlame Sensor Board BGA-1001	5	02.04.2024
Doc-1005078	BGA-1001 Assembly drawing	6	08.04.2024
Doc-1005084	BGA-1000 PCB Gerber	7	08.04.2024
Doc-1005085	BGA-1000 PCB Spec	7	08.04.2024

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2024-04-22	SC536534

END OF CERTIFICATE