

[1]

TYPE EXAMINATION CERTIFICATE

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

[3] Type Examination Certificate Number: **DNV 24 ATEX 03424X** **Issue 0**

[4] Product: **Flame Detector**

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

[6] Address: **Bromstadvengen 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 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 Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

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 TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured

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

 **II 3 G Ex ic IIB T4 Gc -40°C ≤ Ta ≤ +70°C**

Date of issue:
2024-09-10

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



[13]

Schedule

[14]

Type Examination Certificate No:

DNV 24 ATEX 03424X

Issue 0

[15]

Description of Product

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

Maximum number of detectors/loop units: 80

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

See control drawing, Doc-1010936 for connection instructions.

Type designation

BG-301-EXIC

Intrinsically safety parameters

The detector shall be supplied by the Autronica's loop driver module, for mounting in the Autrosafe Fire Alarm Control panel and connected to the power supply BSS-310A, Nemko 03ATEX217X.

Ambient temperature:

-40°C to +70°C

Routine tests

None

[16]

Report No.: PRJN-536552

[17]

Specific Conditions of Use

1. POTENTIAL ELECTROSTATIC CHARGING HAZARD

[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-1011052	BG-301-EXIC TYPE MARKINGS	5	26.06.2024
Doc-1009807	ATEX MID-TIER FLAME DETECTOR EXPLODED VIEW	3	04.09.2023
Doc-1010936	Control Drawing/User Manual Technical specifications and instructions	4	28.08.2024
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	AutroFlame 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	2024-09-10	PRJN-536552

END OF CERTIFICATE