



Confirmation of Product Type Approval

Company Name: AUTRONICA FIRE AND SECURITY AS

Address: BROMSTADVEGEN 59P.O. BOX 5620 TRONDHEIM N-5620 Norway

Product: Flame Detector

Model(s): BG-201, BG-21, BG-301, BG-301-EXIA, BG-301-EXIC

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	24-2499993-1-PDA	25-MAR-2025	24-JAN-2029
Manufacturing Assessment (MA)	24-6708597	18-NOV-2024	17-NOV-2029
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

ABS Classed Vessels and Offshore Installations in accordance with the listed ABS Rules and International Standards.

Description

Interactive and conventional flame detectors for use with Autronica Fire Detection and Fire Alarm Systems, AutoSafe4 and Autoprime.

BG-201: Interactive point flame detector for detection of fires involving combustion of carbonaceous materials.

BG-21: Conventional point flame detector for detection of fires involving combustion of carbonaceous materials.

BG-301: AutoFlame IR3 Detector for the detection of fires involving combustion of carbonaceous materials. BG-301 is suited for use in environments with deceptive phenomena, such as solar radiation or hot vibrating objects.

It is to be used on AI-Com detection loops (for interactive fire detection systems).

Ratings

Degree of Protection: IP66 and IP67,

Working Temperature: -40 to +70 deg C

Operating Voltage:

BG-201: Supplied by loop;

BG-21: 10-26 VDC;

BG-301: Standard non-Ex and Ex ic version: 24 VDC; Ex ia version (requires Barrier Unit BZ-500): 15,75 VDC (max)

Service Restrictions

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes, Drawings and Documentation

Drawing No. 001-0v1-BG-201, Unit test SW1_4, 27-Mar-2012, Autronica, Revision: 1, Pages: -

Drawing No. 001-1v0-BG-201, Unit test SW1_5, 27-Sep-2012, Autronica, Revision: 1, Pages: -

Drawing No. 001-1v1-BG-201, Unit test SW1_6, 29-Jan-2013, Autronica, Revision: 1.1, Pages: -

Drawing No. 001-1v2-BG-201, Unit test SW1_7, 24-Oct-2014, Autronica, Revision: 1.2, Pages: -

Drawing No. 001-1v3-BG-201, Unit test SW1_8, Date: 07-Apr-2015, Revision: 1.3, Pages: -

Drawing No. 358298, TRF EMC ENV, 15-Nov-2018, NEMKO, Revision: -, Pages: -

Drawing No. 200051 TRF MAR E12044_00, 200051 TRF MAR E12044_00, Revision: -, Pages: -

Drawing No. 20121106 ABS TA request form, 20121106 ABS TA request form, Revision: -, Pages: -

Drawing No. 20121106 ABS Type Approval Documents, 20121106 ABS Type Approval Documents, Revision: -, Pages: -

Drawing No. TE276617 BG-201 IR Flame Detector, BG-201 IR Flame Detector Manual, Revision: -, Pages: -

Drawing No. TE276617-SW-A1 BG-201 IR Flame Detector, BG-201 IR Flame Detector Manual-Tec evaluations of Autron Fire n Sec BG201 EN 54-10 2002 N 17-2005, Revision: -, Pages: -

Drawing No. bg201_cgb_2012-10-10, AutoFlame IR flame detector BG-201, Revision: -, Pages: -

Drawing No. bg201_wgb_2012-10-10, AutoFame IR Flame detector BG201-Interactive fire detection systems Mounting Instructions, Revision: -, Pages: -

Drawing No. bg201bg21_dgb_2012-10-10, Instructions BG201-BG21 Table of contents, Revision: -, Pages: -

Drawing No. bg21_cgb 2012-10-10, AutoFlame IR flame detector BG21 Conventional fire detection sys Product Datasheet, Revision: -, Pages: -

Drawing No. bg21_wgb 2012-10-10, AutoFame IR Flame detector BG21-Interactive fire detection systems Mounting Instructions, Revision: -, Pages: -

Drawing No. iso_9001_2008_Nemko, Certificate- Autronica Fire n Security AS --NS-EN 150 9001-2008, 11-Oct-2012, BREGlobal, Revision: -, Pages: -

Drawing No. Test Report no.1381_BA_23 1, Revision: 1, Pages: -

Drawing No. Doc-1005449, AutoFlame IR3 Flame Detector BG-301-Datasheet-eng, Revision: 5, Pages: -

Drawing No. Test Report no. 0870 CBM 2023, Revision: 1, Pages: -

Drawing No. Test Report no. LT 307 2024, Revision: 1, Pages: -

Drawing No. Doc-1005448, AutoFlame IR3 Flame Detector-BG-301-Technical-Handbook-eng, Revision: 6, Pages: -

Drawing No. Test Report no. DPL_003_039_24 CTM, Revision: 1, Pages: -

Drawing No. Test Report no. LT 221.1 2024, Revision: 1, Pages: -

Drawing No. IECEx DNV 23.0068X Revision: 0, Pages: -

Drawing No. IECEx DNV 24.0013X Revision: 0, Pages: -

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 24/Jan/2029 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

2024 Rules for Conditions of Classification, 1A-1-4/7.7, 1A-1-A3, 1A-1-A4, which covers the following:

2024 Marine Vessel Rules: 4-7-3/11.3.3 (a) v), 4-8-3/1.11, 4-8-3/Table 2, 4-8-3/13, 4-8-4/27.5, 4-9-9/3, 4-9-9/7, 4-9-9/13, 4-9-9/Table 1

2024 High-Speed Craft 1C-1-4/11.9, 1C-1-A2 & A3, 4-5-1/13, 4-6-1/3.21, 4-6-1/15, 4-6-1/17, 4-6-3/9.1.1(a), 4-7-9/Table 9

2024 Rules for Yachts: 4-5-2/21.1, 4-6-1/3.21, 4-6-1/15, 4-6-1/17, 4-6-3/9.1.1(a), 4-7-2/Table 1

2024 Rules for Conditions of Classification – Offshore Units and Structures 1B-1-4/9.7, 1B-1-A2, 1B-1-A3, which covers the following:

2024 Mobile Offshore Unit Rules: 5-2-5/1.1.1(b)

2024 Facilities on Offshore Installations Rules: 3-8/7

International Standards

IACS UR E10 Rev.9: 2023

SOLAS (Consolidated Edition 2014), II-2/13

IMO FSS Code (2015) Chapter 9

IEC 60092-504: 2016

IEC 60533: 2015

EN54-10: 2002

EN54-17: 2005

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in blue ink, appearing to read "James J. Walsh".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 26-Mar-2025 7:24

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.