



Marine & Offshore

Certificate number: 09604/F0 BV

File number: ACI 2500/072/03

Product code: 3783H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

Autronica Fire and Security AS
TRONDHEIM - NORWAY

for the type of product

MANUAL CALL POINTS

Type: BF-300V2, BF-510WP-H, BF-500V2/EX, BF-500V2/N, BF-501, BF-501/N, BF-501/EX, BF-502, BF-502/N, BF-502/EX, BF-503, BF-503/N and BF-503/EX

Requirements:

BUREAU VERITAS Rules for the Classification of Steel Ships.

EN 54-11:2001+A1:2005 and EN 54-17:2005.

EN 60079-0/11 (2012).

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 09 Oct 2025

For Bureau Veritas Marine & Offshore,

At BV OSLO, on 09 Oct 2020,

Rune MARSTEIN

Rune Marstein



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarnb.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=w107oifvuj>

BV Mod. Ad.E 530 June 2017

This certificate consists of 4 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

AUTRONICA Manual call-points BF series, addressable, with SelfVerify function and short-circuit isolator, for connection to AutoSafe alarm systems:

1.1 - Main Characteristics:

	BF-300V2 & BF-500V2/EX & BF-500V2/N	BF-510WP-H
Type	Type A (simple action) Breaking of a frangible element.	Type A (simple action) Breaking of a frangible element.
Protection Index	IP 44D with cover IP 42D without cover (Indoor Applications)	IP 55 with cover IP 52 without cover (Outdoor Applications)
Working Temperature	-15°C to +70°C	-40°C to +70°C
Frangible Element	Non-Resetable	Non-Resetable
Power Supply	24 VDC (16 to 26 VDC)	24 VDC (16 to 26 VDC)
Ex Protection	N/A (BF-300V2) Ex ia IIC T5 Ga (BF-500V2/EX) Ex ic IIB T4 Gc (BF-500V2/N)	N/A
Software Version	2.4x	2.4x
Testing Standards	IEC 60092-504 EN 54-11 & EN 54-17	IEC 60092-504 EN 54-11 & EN 54-17

	BF-501 & BF-501/EX & BF-501/N	BF-502 & BF-502/EX & BF-502/N	BF-503 & BF-503/EX & BF-503/N
Type	Breaking of a frangible element	Breaking of a frangible element	Push button
Protection Index	IP 66 (Harsh Environment)	IP 66 (Harsh Environment)	IP 66/67 (Harsh Environment)
Working Temperature	-20°C to +70°C	-25°C to +70°C	-20°C to +70°C
Frangible Element	Non-Resetable	Non-Resetable	Resetable by means of key
Power Supply	24 VDC (10 to 27 VDC)	24 VDC (10 to 27 VDC)	24 VDC (10 to 27 VDC)
Ex Protection	N/A (BF-501) Ex ia IIC T5 Ga (BF-501/EX) Ex ic IIB T4 Gc (BF-501/N)	N/A (BF-502) Ex ia IIC T5 Ga (BF-502/EX) Ex ic IIB T4 Gc (BF-502/N)	N/A (BF-503) Ex ia IIC T5 Ga (BF-503/EX) Ex ic IIB T4 Gc (BF-503/N)
Software Version	2.4x	2.4x	2.4x
Testing Standards	IEC 60092-504	IEC 60092-504	IEC 60092-504

2. DOCUMENTS AND DRAWINGS:

Autronica:

BF-300V2 - 116-P-BF300V2/CGB, Rev. C dated 2016-10-24
 BF-510WP-H - 116-P-BF510WPH/CGB, Rev. C dated 2016-07-14
 BF-501 - 116-P-BF501/CGB, Rev. E dated 2016-10-06
 BF-503 - 116-P-BF503/CGB, Rev. A dated 2010-09-02
 BF-500V2/EX - 116-P-BF500V2EX/CGB, Rev. D dated 2019-03-28
 BF-501/EX - 116-P-BF501EX/CGB, Rev. H dated 2019-03-28
 BF-503/EX - 116-P-BF503EX/CGB, Rev. I dated 2019-03-28
 Fullleon Manual Call Point, BF-300 SW Changes, Doc. No. 850040FEB08/4.2/003 Version 1.0 dated 16.03.2010.
 Software documentation ref. 850045Jan09/4.2/003 Ver. 1.0
 Detector software description Ver. 1.0.

For modification F0 version:

Autronica:

BF-501/N - 116-P-BF501N/CGB, Rev. D Dated 2016-11-25.
 BF-500V2/N - 116-P-BF500V2N/CGB, dated 2016-04-29.
 BF-502/EX - 116-P-BF502EX/CGB, Rev. H dated 2019-03-28.
 BF-502 - 116-P-BF502/CGB, Rev. E dated 2016-10-26.
 BF-502/N - 116-P-BF502N/CGB, Rev. D dated 2016-11-25.
 BF-503/N - 116-P-BF503N/CGB, Rev. C dated 2016-04-29.

3. TEST REPORTS:

Issued by **LPC**: Test report EN 54 N° TE 89823 and Test report N° 99-1491.

Issued by **CNPP**:

BF-300V2-H - Test Reports No. DE 08 00 72 and No. DE 08 00 72 A both dated 23 Dec. 2008

BF-510WP-H - Test Reports No. DE 08 00 71 and No. DE 08 00 71 A both dated 23 Dec. 2008.

Issued by **DNV**:

Environmental and Testing of Autosafe System, Test Report No. 99-1491 Rev. 02 dated 03 December 1999

Maritime Testing of Manual Call Points BF., Test Report No. 2009-3598 Rev. 02 dated 2010-03-25.

For modification F0 version:

Issued by **Nemko**:

EC-Type Examination Certificate No. Nemko 03ATEX 217X, Issue 7 dated 2016-06-08.

EC-Type Examination Certificate No. Nemko 03ATEX 218X, Issue 9 dated 2019-01-07.

IECEX Certificate No. IECEX NEM 11.0009X Issue No.4, dated 2019-01-08.

IECEX Certificate No. IECEX NEM 11.0017X Issue No.2, dated 2016-05-20.

Test Report Environmental and EMC No. E18217.00, dated 2018-11-15.

Issued by **applica**:

Test Report No. 20916, dated 12-10-2016.

Test Report No. 21091, dated 15-06-2017.

4. APPLICATION / LIMITATION:

4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - BUREAU VERITAS Environmental Category, **EC Code: 31** (BF-300V2, BF-500V2/EX, BF-500V2/N), **31/41S** (BF-501, BF-501/EX, BF-501/N, BF-510WP-H, BF-502, BF-502/EX, BF-502/N, BF-503, BF-503/N and BF-503/EX).

4.4 - The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zone.

4.5 - **BF-500V2/EX, BF-501/EX, BF-502/EX and BF-503/EX** must be connected to the approved AutoSafe barrier **BZ-500.**

4.6 - Only Hardware and Software successfully tested together in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer are covered by this certificate.

4.7 - Each application and configuration is to be submitted to the Society's examination prior to fitting on board.

4.8 - The equipment, once installed on board ship, is to be tested in accordance with the above referred Regulations under the supervision of a Society's Surveyor.

4.9 - The above products comply with the test requirements of IACS UR E10 Rev.7

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The **AUTRONICA Manual call-points of BF series** are to be supplied by **Autronica Fire and Security AS** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **Autronica Fire and Security AS** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **Autronica Fire and Security AS** has declared to Bureau Veritas the following production site(s):

Autronica Fire and Security AS
Bromstadveien 59
7483 TRONDHEIM
NORWAY

6. MARKING OF PRODUCT:

6.1 - Maker's name or trademark,

- Serial number of the units,

- Equipment type number or model identification under which it was type-tested.

- Type designation

- Standard N° (if any)

- Specification of terminals

- Software version N°

6.2 - According to EN 54-11 and EN 54-17 (BF-300V2, BF-500V2/EX & BF-510WP-H only)

6.3 - Ex marking as relevant, if applicable.

7. OTHERS:

7.1 - It is **Autronica Fire and Security AS**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 09604/E0 BV issued on 08 Jul 2015 by the Society.

***** END OF CERTIFICATE *****