

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00006DM
Revision no.:
1

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

that the **Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: - manual call points**

with type designation(s)
Manual call points

issued to

Autronica Fire and Security AS
Trondheim, Norway

is found to comply with the Implementing Regulation (EU) 2024/1975 for
Item no. **MED/3.51f (Row 1 of 1)**
according to the following requirements:

SOLAS 74 Reg. II-2/7, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO Res. MSC.391(95)-(IGF Code) 11, IMO MSC.1/Circ.1242, SOLAS 74 Reg. X/3, IMO Res.MSC.98(73)-(FSS Code) 9

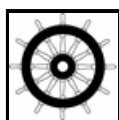
Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2025-05-14**

Expiry date: **2030-05-13**

DNV local unit:
Trondheim

Approval Engineer:
Ståle Sneen



Notified Body
no.: **0575**



for **DNV AS**

Digitally Signed By:

Christine Mydlak-Röder

Christine Mydlak-Röder
Head of Notified Body



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

Manual call points designed according to EN54 for use with Autronica's interactive fire detection systems:

BF-300M	Manual call point with SelfVerify, with metal mounting box and cable glands
BF-502	Manual call point with SelfVerify, humid areas
BF-502/N	Manual call point with SelfVerify, Ex ic version for use in zone 2 only, humid areas
BF-502/EX	Manual call point with SelfVerify, Ex ia version for use in all zones, humid areas
BF-300V2	Manual call point with SelfVerify
BF-500V2/N	Manual call point with SelfVerify, Ex ic version for use in zone 2 only
BF-500V2/EX	Manual call point with SelfVerify, Ex ia version for use in all zones
BF-510WP-H	Manual call point with SelfVerify, weatherproof

Application/Limitation

Please see Appendix: Application/Limitation

Type Examination documentation

Please see Appendix: Type Examination Documentation

Tests carried out

Applicable tests according to:

- EN 54-11:2001 incl. A1:2005
- IEC 60092-504:2016
- IEC 60533:2015

Marking of product

For identification to this type examination certificate the products shall be marked with:

- Manufacturer's name or trade mark
- Type designation
- Mark of Conformity (wheel mark), followed by
 - identification number of the NoBo involved in production control (MED D)
 - the year the mark is affixed
 - Example: 0575/2025

APPENDIX

Type Examination documentation

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Document No.	Rev.	Title
1975/BA/04 2006.06.06	-	Report: CNBOP - EN54-11
3538/BA/07	-	Report: CNBOP - EN54-11
DE080071	Rev. 0, 2008-12-23	Report: CNPP 54-11 - BF-510WP-H
-		Data sheet: part 116-100002323, Crimp terminal end splice
Doc-1001457	3	Type label: BF-502
Doc-1001565	6	Type label: 116-E-2842, BF-500V2/EX
Doc-1001819	7	Type label: BF-502/EX, 116-E-2968
Doc-1003855	2	Drawing: BV-300V2
Doc-1003886	3	Type label: Part No. 25-9747-E, BF-300V2
Doc-1003892	4	Leaflet: MCP, 25-9726-G
Doc-1003895	3	Type label: Part No. 25-9858-E, BF-510WP-H
Doc-1003900	1	Drawing: Wheelmark and FM
Doc-1016734	0	Report: ATEX, EN 60529:1991+A2:2013, IP65, 315748, BF-500V2/EX and BF-500V2/N
bf300m_cgb	F	Data sheet: BF-300M
Doc-1000116	2	Data sheet: BF-502/EX
Doc-1000123	4	Data sheet: BF-500V2/EX
Doc-1000126	4	Data sheet: BF-502/N
Doc-1000318	2	Data sheet: BF-300V2
Doc-1000324	2	Data sheet: BF-502
Doc-1000330	4	Data sheet: BF-510WP-H
Doc-1003902	3	Data sheet: BF-500V2/N
Doc-1000153	2	Drawing: BF-500V2/EX & BF-226A
Doc-1001819	7	Type label: BF-502/EX, E-2968
Doc-1001876	1	Drawing: BF-502 & BF-502/N, BF-223C
Doc-1001942	1	Drawing: BF-200C
Doc-1002364	4	Drawing: BF-197G, BF-500V2/N
Doc-1003606	9	Drawing: No. 03ATEX218X/IECEX11.0009X, BF-502/EX
Doc-1003903	4	Type label: BF-500V2/N, 116-E-3176
Doc-1004552	3	Drawing: Technical specifications and instructions
Doc-1005452	1	Type label: ETL marking label, Part No. 116-100002170.1
Doc-1004840	1	Report: EMC/ENV, Nemko, E18217.00
Doc-1005051	1	Report: DNV, No. 2009-3598, Rev. 02
Doc-1005134	2	Report: DNV, EMC, No. 2000-1178
Doc-1005346	1	Report: CNPP, No. DE080070 BF-500V2/EX EN 54-11
Doc-1005351	1	Report: CNPP, No. DE080073, BF-300V2 EN 54-11
Doc-1010873	2	Report: DNV, No. 99-1491
ENV1630	2008-03-12	Report: Abtest, EN60529, IP66, BF-510WP-H



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The equipment is found to comply with following location/application dependent requirements (for definition of each of the location classes, see below the table):

MODEL	TEMPERATURE	VIBRATION	EMC	ENCLOSURE
BF-300M	TEM-A	VIB-B	EMC-A	ENC-B
BF-502	TEM-D	VIB-B	EMC-A	ENC-C
BF-502/N	TEM-D	VIB-B	EMC-A	ENC-C
BF-502/EX	TEM-D	VIB-B	EMC-A	ENC-C
BF-300V2	TEM-B	VIB-A	EMC-B	ENC-B
BF-500V2/N	TEM-B	VIB-A	EMC-B	ENC-B (Note 1)
BF-500V2/EX	TEM-B	VIB-A	EMC-B	ENC-B (Note 1)
BF-510WP-H	TEM-D	VIB-A	EMC-B	ENC-B / C (Note 2)

Note 1: Tested to IP65.

Note 2: Tested to IP52 / IP66 with cover.

Definition of the location classes with reference to relevant standards:

- Temperature: TEM-A – Location (5°C-55°C) (ref. IEC 60092-504:2016 table 1 item 6-7)
TEM-B – Location (5°C-70°C) (ref. IEC 60092-504:2016 table 1 item 6-7)
TEM-D – Location (-25°C-70°C) (ref. IEC 60092-504:2016 table 1 item 6-7)
- Vibration: VIB-A – For general applications (ref. IEC 60092-504:2016 table 1 item 10)
VIB-B – On reciprocating machines etc. (ref. IEC 60092-504:2016 table 1 item 10)
- EMC: EMC-A – General power distribution zones (ref. IEC 60092-504:2016 table 1 item 13-20)
EMC-B – Bridge and open deck zone (ref. IEC 60092-504:2016 table 1 item 13-20)
- Enclosure: ENC-B – Engine room (IP44) (ref. IEC 60092-201:1994 table 5)
ENC-C – Open deck (IP56) (ref. IEC 60092-201:1994 table 5)

Ex installations to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.

Ex-certification is not covered by this certificate and the following paragraph, which is for information only, is based on information received from the manufacturer, but not verified by DNV.

Information on Ex-Certification received from manufacturer – Not verified by DNV				
Equipment	Certified			Certificate No.
BF-500V2/EX	Ex II 1G	Ex ia IIC T5 Ga	Ta: -30°C to +70°C	Nemko 03ATEX218X
BF-502/EX	Ex II 1G	Ex ia IIC T5 Ga	Ta: -20°C to +70°C	Nemko 03ATEX218X
	Ex II 1D	Ex ia IIIC T200 115°C Da	Ta -20°C to +70°C	
BF-500V2/N	Ex II 3G	Ex ic IIB T4 Gc	Ta: -30°C to +70°C	Nemko 03ATEX217X
BF-502/N	Ex II 3G	Ex ic IIB T4 Gc	Ta: -25°C to +70°C	Nemko 03ATEX217X