TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MERB0001N6Z
Revision no.:
0

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

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 Regulation **(UK) MSN 1874 Amendment 10** for
Item no. **UK/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: **2025-10-02**

Expiry date: **2030-10-01**

DNV local unit:
Trondheim

Approval Engineer:
Ståle Sneen

Approved Body No:: 0097

for **DNV UK Ltd.**

Digitally Signed By:
Christine Mydlak-Röder

Christine Mydlak-Röder
MER Service Responsible

Maritime & Coastguard Agency
UK Approved Body Authorised by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.
During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved 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-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.

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 (UK Conformity Mark), followed by
    - identification number of the Approved Body involved in production control (MER D)
    - the year the mark is affixed
    - Example: 0097/2025

APPENDIX

Type Examination documentation

Certificate no.:
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Document No.	Rev.	Title
bf300m_cgb	F	Data sheet: BF-300M
		crimp terminal end splice datasheet
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-1000153	2	Drawing: BF-500V2/EX & BF-226A
Doc-1000318	2	Data sheet: BF-300V2
Doc-1000324	2	Data sheet: BF-502
Doc-1000330	4	Data sheet: BF-510WP-H
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-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-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-1003902	3	Data sheet: BF-500V2/N
Doc-1003903	4	Type label: BF-500V2/N, 116-E-3176
Doc-1004552	3	Drawing: Technical specifications and instructions
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-1005452	1	Type label: ETL marking label, Part No. 116-100002170.1
Doc-1010873	2	Report: DNV, No. 99-1491
Doc-1016734	0	Report: ATEX, EN 60529:1991+A2:2013, IP65, 315748, BF-500V2/EX and BF-500V2/N
ENV1630	2008-03-12	Report: Abtest, EN60529, IP66, BF-510WP-H
Nemko 03ATEX217X	9	Certificate: Nemko 03ATEX217X Issue 9, Loop driver and detectors

APPENDIX

Application/Limitation

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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 II 1D	Ex ia IIC T5 Ga Ex ia IIIC T200 115ºC Da	Ta: -20°C to +70°C Ta -20°C to +70°C	Nemko 03ATEX218X
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