

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 GL 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 requirements in the following Regulations/Standards:

Regulation **(EU) 2019/1397,**

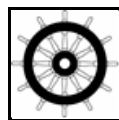
**item No. MED/3.51f. SOLAS 74 as amended, Regulation II-2/7 & X/3, 1994 HSC Code 7, 2000 HSC Code 7, FSS Code 9, IGF Code 11 and IMO MSC.1/Circ.1242**

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

This Certificate is valid until **2025-02-13.**

Issued at **Høvik** on **2020-02-14**

DNV GL local station:  
**Trondheim**



for **DNV GL AS**

Approval Engineer:  
**Ståle Sneen**

Notified Body  
No.: **0575**

**Roald Vårheim**  
**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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



## 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

The equipment are 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
BF-500V2/EX	TEM-B	VIB-A	EMC-B	ENC-B
BF-510WP-H	TEM-D	VIB-A	EMC-B	ENC-B (Note 1)

Note 1: Tested to IP55 (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 GL.

Information on Ex-Certification received from manufacturer – Not verified by DNV GL				
Equipment	Certified			Certificate No.
BF-500V2/EX BF-502/EX	Ex II 1G	Ex ia IIC T5	Ta: -20°C to +70°C	Nemko 03ATEX218X
BF-500V2/N	Ex II (3)G	[Ex ic Gc] IIB	Ta: -30°C to +50°C	Nemko 03ATEX217X
	Ex II 3G	Ex ic IIB T4 Gc	Ta: -30°C to +50°C	
BF-502/N	Ex II (3)G	[Ex ic Gc] IIB	Ta: -25°C to +70°C	Nemko 03ATEX217X
	Ex II 3G	Ex ic IIB T4 Gc	Ta: -25°C to +70°C	

## Type Examination documentation

Equipment	Scope	Document	No.
BF-300M	EN 54-11	LPC, Test Report, TE89823 1999.02.12	7
	IEC60092-504, IEC60533	DNV, Test Report, 99-1491, rev.2	4

Equipment	Scope	Document	No.
		Nemko, Test report (supplemental), E18217.00	152
	Product data	Autronica, Data Sheet, 116-P-BF300M/CE, rev.E	26
BF-502	EN 54-11	CNBOP, Test Report, 1975/BA/04 2006.06.06	8
		CNBOP, Test Report, BA/0678/400/2720/07	9
	IEC60092-504, IEC60533	DNV, Test Report, 99-1491, rev.2	4
		Nemko, Test report (supplemental), E18217.00	152
	Product data	Autronica, Data Sheet, 116-P-BF502/CGB, rev.E	120
BF-502/N	EN 54-11	CNBOP, Test Report, 1975/BA/04 2006.06.06	8
		CNBOP, Test Report, BA/0678/400/2720/07	9
	IEC60092-504, IEC60533	DNV, Test Report, 99-1491, rev.2	4
		Nemko, Test report (supplemental), E18217.00	152
	Product data	Autronica, Data Sheet, 116-P-BF502N/CGB, rev.D	122
BF-502/EX	EN 54-11	CNBOP, Test Report, 1975/BA/04 2006.06.06	8
		CNBOP, Test Report, BA/0678/400/2720/07	9
	IEC60092-504, IEC60533	DNV, Test Report, 2000-1178, rev.2	5
		Nemko, Test report (supplemental), E18217.00	152
	Product data	Autronica, Data Sheet, 116-P-BF502EX/CGB, rev.G	121
BF-300V2	EN 54-11	CNPP, Test Report, DE080073, rev.0	52
	IEC60092-504, IEC60533	DNV, Test Report, 2009-3598, rev.1	51
		Nemko, Test report (supplemental), E18217.00	152
		Product data	Autronica, Data Sheet, 116-P-BF300V2/CGB, rev.C
BF-500V2/N	EN 54-11	CNPP, Test Report, DE080070, rev.0	53
	IEC60092-504, IEC60533	DNV, Test Report, 2009-3598, rev.1	51
		Nemko, Test report (supplemental), E18217.00	152
		Product data	Autronica, Data Sheet, 116-P-BF500V2N/CGB, dated 2016-04-29
BF-500V2/EX	EN 54-11	CNPP, Test Report, DE080070, rev.0	53
	IEC60092-504, IEC60533	DNV, Test Report, 2009-3598, rev.1	51
		Nemko, Test report (supplemental), E18217.00	152
		Product data	Autronica, Data Sheet, 116-P-BF500V2EX/CGB, rev.C
BF-510WP-H	EN 54-11	CNPP, Test Report, DE080071, rev.0	54
	IEC60092-504, IEC60533	DNV, Test Report, 2009-3598, rev.1	51
		Nemko, Test report (supplemental), E18217.00	152
		Product data	Autronica, Data Sheet, 116-P-BF510WPH/CGB, rev.C

### 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: 0575/2020