

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 the Kingdom 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: Input/output devices

with type designation(s)
Ancillary field units

Issued to

Autronica Fire and Security AS
Trondheim, Norway

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2015/559**,

Annex A.1, item No. A.1/3.51h and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation II-2/7 & X/3, 2000 HSC Code 7, FSS Code 9 and IMO MSC.1/Circ.1242

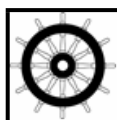
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-02-14**.

Issued at **Høvik** on **2017-02-15**

DNV GL local station:
Trondheim

Approval Engineer:
Nils Jarem



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body



Product description

Ancillary field units designed for use with Autronica's interactive fire detection systems:

BN-221/01 Extinguishing control unit
BN-221/02 Monitored Output Unit with 7A current capability

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
BN-221/01	TEM-B	VIB-A	EMC-B	ENC-C
BN-221/02	TEM-B	VIB-A	EMC-B	ENC-C

Definition of the location classes with reference to relevant standards:

Temperature

TEM-B Location (-10°C-+70°C) (ref. IEC 60092-504 (2001) table 1 item 6-7)

Vibration

VIB-A For general applications (ref. IEC 60092-504 (2001) table 1 item 10)

EMC

EMC-B Bridge and open deck zone (ref. IEC 60092-504 (2001) table 1 item 19-20)

Enclosure

ENC-C Open deck (IP66) (ref. IEC 60092-201 table 5)

Type Examination documentation

Equipment	Scope	Document	No.
BN-221/01	IEC60092-504, IEC60533, EN 54-18	Nemko Test Report No. E15275.00 dated 2015-12-14	146
	EN 54-18: 2005	Nemko Test Report No. E16025.00 dated 2017-01-13	148
		Nemko Test Report No. E16007.00 dated 2017-01-13	151
	EN 54-17: 2005	Nemko Test Report No. E16024.00 dated 2017-01-13	147
	Product data	Data Sheet, 116-P-BN221-01/CGB dated 2012-10-16	144
BN-221/02	IEC60092-504, IEC60533, EN 54-18	Nemko Test Report No. E15275.00 dated 2015-12-14	146
	EN 54-18: 2005	Nemko Test Report No. E16027.00 dated 2017-01-13	150
		Nemko Test Report No. E16007.00 dated 2017-01-13	151
	EN 54-17: 2005	Nemko Test Report No. E16026.00 dated 2017-01-13	149
	Product data	Data Sheet, 116-P-BN221-02/CGB dated 2012-10-16	145

Tests carried out

- IEC 60092-504 (2001)
- IEC 60533 (2015)
- EN 54-18 (2005) including AC (2007)
- EN 54-17 (2005) including AC (2007)

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 (see below)



Job Id:
Certificate No: **MEDB000019E**

Mark of Conformity

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 ANNEX II of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a of Certificate Conformity.