

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Fire Alarm Manual Call Point**

with type designation(s)

BF-501, BF-501/N, BF-501/EX, BF-503/N, BF-503/EX

Issued to

**Autronica Fire and Security AS
TRONDHEIM, Norway**

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Location classes:**

Temperature	A
Humidity	B
Vibration	B
EMC	A
Enclosure	C

This Certificate is valid until **2021-12-31**.Issued at **Høvik** on **2016-10-10**DNV GL local station: **Trondheim**Approval Engineer: **Nils Jarem**for **DNV GL**

Odd Magne Nesvåg
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Job Id: **262.1-006958-3**
Certificate No: **TAA00000T5**

Product description

Fire Alarm Manual Call Points with Self Verify function.

Application/Limitation

The MCPs are approved for use with type approved Autrosafe and Autroprime System manufactured by Autronica Fire and Security AS.

System application and location of Manual Call Points to be in accordance with relevant parts of DNV GL Rules.

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-501/N BF-503/N	⊕ II 3 G [Ex ic Gc] IIB, Ex ic IIB T4 Gc Ta = -20°C to +70°C	Nemko 03ATEX217X
BF-501/EX BF-503/EX	⊕ II 1 G Exia IIC T5 Ga Ta = 70°C	Nemko 03ATEX218X

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems

Type Approval documentation

Data Sheets:

116-P-BF 501/CGB, Rev D, dated 2012-10-04
116-P-BF 501N/CGB, Rev C, dated 2016-04-29
116-P-BF 501Ex/CGB, Rev F, dated 2016-04-29
116-P-BF 503N/CGB, Rev C, dated 2016-04-29
116-P-BF 503Ex/CGB, Rev H, dated 2016-04-29

Test Reports:

LPC TE 89823 AFS File No. 1999.04.20-011
DNV 99-1491 rev. No.02 Autronica File No. C-265
DNV 2000-1178 rev. 02 Autronica File No. C-268

Type approval periodical assessment report for A-13288, DNV GL Trondheim 2016-09-28.

Tests carried out

Tests according to DNV Standard for Certification No.2.4 and EN54-11.

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

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Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed at least every second year and at renewal of this certificate.

END OF CERTIFICATE