



Certificate number: 82483/A0 BV

File number: MPA2503046

Product code: 3784H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**Autronica Fire and Security AS**  
TRONDHEIM - NORWAY

*for the type of product*

**HEAT FIRE DETECTORS**  
High-temperature heat detector BD-200PT

### Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

EN 54-5:2017 + A1: 2018

EN 54-17: 2005 + AC:2007

IEC 60092-504: 2016

IEC 60533: 2015

EC Code: 33/43 B

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 19 Nov 2030**

**For Bureau Veritas Marine & Offshore,**

At BV OSLO, on 19 Nov 2025,

Jonny Pettersson

***This certificate was created electronically and is valid without signature***



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

High-temperature heat detector **BD-200PT**.

#### AL\_Com Communication models:

Model name	Part Number	Description	EN54-5 Category
BD-200PT/84-KIT	116-BD-200PT/84-KIT	Heat detector kit with sensor and interface box for alarm temperature 84 °C ( BD-200PT-I/84 + BD-200PT-S)	CS
BD-200PT/100-KIT	116-BD-200PT/100-KIT	Heat detector kit with sensor and interface box for alarm temperature 100 °C ( BD-200PT-I/100 + BD-200PT-S)	DS
BD-200PT/120-KIT	116-BD-200PT/120-KIT	Heat detector kit with sensor and interface box for alarm temperature 120 °C ( BD-200PT-I/120 + BD-200PT-S)	ES
BD-200PT/140-KIT	116-BD-200PT/140-KIT	Heat detector kit with sensor and interface box for alarm temperature 140 °C ( BD-200PT-I/140 + BD-200PT-S)	FS
BD-200PT-S	116-BD-200PT-S	Heat detector sensor	-

#### Sensor Specifications

Sensor type	PT100
Ingress protection	IP66
Operating temperature	-25°C to +150°C
Materials	Stainless steel 316L

#### Interface box Specifications

Operating Voltage	16V - 26V
Ingress protection	IP54 with membrane glands IP 66 with suitable cable glands (refer datasheet)
Operating temperature	-25°C to +70°C
Software version	1.24.x

#### Relay Communication models:

Model name	Part Number	Description	EN54-5 Category
BD-200PT-RL/140-KIT	116-BD-200PT-RL/140-KIT	Heat detector kit with sensor and interface box for alarm temperature 140 °C (BD-200PT-I-RL/140 + BD-200PT-S-ENCLOSURE)	FS
BD-200PT-S-ENCLOSURE	116- BD-200PT-S-ENCLOSURE	Heat detector sensor with enclosure	-

### 2. DOCUMENTS AND DRAWINGS :

- High-Temperature Heat Detector BD-200PT Product Datasheet, No. DOC-1028791-2, dated 16-07-2025.
- High-Temperature Heat Detector BD-200PT-RL/140-Kit Product Datasheet, No. DOC-1029514-1-2, dated 16-07-2025.
- Heat Detector Schematic BDA-1001 AL\_Com, No. Doc-1016879 rev.4, dated 04-02-2025.
- Heat Detector Schematic BDA-1002 Relay, No. Doc-1016902 rev.4, dated 04-02-2025.
- Heat Detector Schematic BDA-1003 Sensor, No.Doc-1028731 rev.1, dated 11-12-2024.
- Heat detector assembly, No. Doc-1029252 rev.1, dated 26-02-2025.
- BDA-1001 Assembly drawing AL\_Com, No. Doc-1017453 rev.4, dated 05-02-2025.
- BDA-1002 Assembly drawing Relay, No. Doc-1017454 rev.4, dated 05-02-2025.
- PCB Gerber Interface Box , No. Doc-1028733 rev.1, dated 24-09-2024.
- PCB PT100 Sensor BDA-1030, No. Doc-1029032 rev.1, dated 18-12-2024.

### 3. TEST REPORTS :

#### CNBOP-PIB:

- Test Report No. 832/BA/24, dated 29-08-2025.

**4. APPLICATION / LIMITATION :**

- 4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.
- 4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
- 4.3 - BUREAU VERITAS Environmental Category, **EC Code: 33/43 B**
- 4.4 - The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zone.
- 4.5 - For any application for a given ship, drawings showing the arrangement and grouping of the detectors shall be submitted for Society's Approval.
- 4.6 - The equipment, once installed on board ship, is to be tested in accordance with the above referred Rules under the supervision of a Society's Surveyor.
- 4.7 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 10.

**5. PRODUCTION SURVEY REQUIREMENTS :**

- 5.1 - The above products are to be supplied by **Autronica Fire and Security AS** in compliance with the type described in this certificate.
- 5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.
- 5.3 - **Autronica Fire and Security AS** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.
- 5.4 - For information, **Autronica Fire and Security AS** has declared to Bureau Veritas the following production site(s):

**Autronica Fire and Security AS**  
**Bromstadvegen 59**  
**7047 TRONDHEIM**  
**NORWAY**

**6. MARKING OF PRODUCT :**

- Maker's name or trade mark,
- Serial number of the units,
- Equipment type number or model identification under which it was type-tested,
- According to EN 54-5
- According to EN 54-17 for AL\_Com Communication models

**7. OTHERS :**

It is **Autronica Fire and Security AS** 's responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

\*\*\* END OF CERTIFICATE \*\*\*