

# TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:  
**MERB0001N4X**  
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: - heat detectors- point detectors**

with type designation(s)  
**High-temperature heat detector BD-200PT**

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/3.51c** (Row **2 of 2**)  
according to the following requirements:

**UK/3.51c and UK/3.51g, 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: **2025-09-24**

Expiry date: **2030-09-23**

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

Please see Appendix: Product Description

## Application/Limitation

Please see Appendix: Application/Limitation

## Type Examination documentation

Please see Appendix: Type Examination Documentation

## Tests carried out

Applicable tests according to:

- EN 54-5:2017 incl. A1:2018
- IEC 60092-504:2016
- IEC 60533:2015
- EN 54-17:2005 incl. AC:2007 (All variants except BD-200PT-I-RL/140)

## 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

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Document No.	Rev.	Title
Doc-1029252	1 / 2025-02-28	Drawing: Heat detector assembly
Doc-1016879	4 / 2025-02-04	Schematic: BDA-1001 (AL_Com Heat detector)
Doc-1016902	4 / 2025-02-04	Schematic: BDA-1002 (Relay Heat detector)
116-BD-200PT-I-RL/140	1.1 / 2025-08-29	Agency BOM: BD-200PT-I-RL/140
116-BD-200PT-I/120	1.1 / 2025-03-19	Agency BOM: BD-200PT-I/120
116-BD-200PT-I/140	1.2 / 2025-08-29	Agency BOM: BD-200PT-I/140
116-BD-200PT-S	1.2 / 2025-06-30	Agency BOM: BD-200PT-S
116-BD-200PT-S-ENCLOSURE	1.1 / 2025-08-29	Agency BOM: BD-200PT-S-ENCLOSURE
832/BA/24	1 / 2025-08-29	Test Report: CNBOP-PIB
DPL/003/237/25	1 / 2025-08-26	Test Report: OBR-CTM_AL_Com version
DPL/003/238/25	1 / 2025-08-26	Test Report: OBR-CTM_Relay version
Doc-1028791	4 / 2025-09-21	Datasheet: BD-200PT (Heat Detector_AL_Com version)
Doc-1029514	3 / 2025-09-21	Datasheet: BD-200PT-RL/140-KIT (Heat Detector_Relay version)

## APPENDIX

### Product Description

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The high temperature heat detector BD-200PT designed according to EN 54 for use with Autronica's interactive fire detection systems and is available in AL\_Com communication version and Relay version.

AL\_Com product models:

Model name	Description	EN 54-5 Category
BD-200PT/120-KIT	Heat detector kit with sensor and interface box for alarm temperature 120°C	ES
BD-200PT/140-KIT	Heat detector kit with sensor and interface box for alarm temperature 140°C	FS
BD-200PT-I/120	Heat detector interface box for alarm temperature 120°C	-
BD-200PT-I/140	Heat detector interface box for alarm temperature 140°C	-
BD-200PT-S	Heat detector sensor for temperature 120°C and 140°C	-

Relay product models:

Model name	Description	EN 54-5 Category
BD-200PT-RL/140-KIT	Heat detector kit with sensor and interface box for alarm temperature 140°C	FS
BD-200PT-I-RL/140	Heat detector interface box for alarm temperature 140°C	-
BD-200PT-S-ENCLOSURE	Heat detector sensor with enclosure for temperature 140°C	-

# 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):

TEMP.	VIBRATION	EMC	ENCLOSURE
TEM-D	VIB-B	EMC-B	ENC-B

Definition of the location classes with reference to relevant standards:

Temperature:	TEM-D	Location (-25°C-70°C) (ref. IEC 60092-504:2016 table 1 item 6-7) and relevant EN 54-5 category (see Product description)
Vibration:	VIB-B	For eq. on reciprocating machines etc. (ref. IEC 60092-504:2016 table 1 item 10)
EMC:	EMC-B	Bridge and open deck zone (ref. IEC 60092-504:2016 table 1 item 13-20)
Enclosure:	ENC-B	Interface box: IP54 with membrane glands : IP66 with gland 116-6571-011.1920 + nut 116-6531-006.1920 (refer datasheet) Sensor : IP66 (ref. IEC 60092-201:1994 table 5)