

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Autronica Fire & Security AS
Address	Bromstadvegen 59, Trondheim, 7047, Norway
Type	Fire Detection Alarm Systems
Description	Types: BH, BD and BWP
Trade Name	Fire Detector, Adapter and Conduit Box, Please Refer To Appendix For Details
Application	Marine, offshore and industrial applications suitable for use in environmental categories ENV1, and ENV2 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – March:2019
Specified Standard	IEC 60092-504:2016 EN 54-7:2000 / A1:2002 / A2:2006 EN-54-5:2000 / A1:2002
Other Conditions	Ratings for application in hazardous areas are to be obtained from applicable Ex Certificates. Systems comprising the components described above are subject to a separate plan appraisal according to applicable Rules and Regulations when installed on LR classed vessels.

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This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document HTS/ETS 40485-20 AHB/TW/AC and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

TYPE Fire Detectors, adapters and conduit boxes

Description	Type	SW Version
With SelfVerify		
Heat detector	BD-300	2-41
Heat detector	BD-500	2-41
Heat detector	BD-500/N	2-41
Heat detector	BD-500/EX	2-41
Heat detector	BD-501	2-41
Heat detector	BD-501/EX	2-41
Smoke detector	BH-300	2-41
Smoke detector	BH-320	2-41
Smoke detector	BH-500	2-41
Smoke detector	BH-500/N	2-41
Smoke detector	BH-500/EX	2-41
Smoke detector	BH-520	2-41
Smoke detector	BH-520/N	2-41
Smoke detector	BH-520/EX	2-41
Without SelfVerify		
Heat detector	BD-200	2-41
Smoke detector	BH-200	2-41
Smoke detector	BH-220	2-41
Conduit Box	BWP-100/20*	-
Conduit Box	BWP-100/25	-
Adapter for ventilation duct	BWP-143A	-
Adapter for ventilation duct	BWP-143A-SS	-

*BWA-100 standard base(socket) used in all models except BD-501, BD-501/N, BD-501/Ex and BD-200M