

# 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.

<b>Manufacturer</b>	<b>Autronica Fire &amp; Security AS</b>
<b>Address</b>	Bromstadvegen 59, Trondheim, 7047, Norway
<b>Type</b>	Fire Detection Alarm Systems
<b>Description</b>	AutroSafe input / output units
<b>Trade Name</b>	BN, BNB, BNY-types, refer to Appendix for details
<b>Application</b>	Marine, offshore and industrial applications suitable for use in environmental categories ENV1, ENV2 and ENV 3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – March 2019
<b>Specified Standard</b>	IEC 60092-504:2016 EN 54-17:2005 EN 54-18:2005
<b>Additional Tests</b>	Compass safe distance (BN-303, BN-304, BN-307): Standard- 20cm Steering- 15cm  Degree of protection: IP54: BN-303, BN-304, BN-305, BN-307

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### Other Conditions

BN-305-D is required to be mounted in a min. IP 66 metallic enclosure. 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.

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 No. HTS/ETS 39289-20 AHB/TW/AC and its supplementary Type Approval Terms and Conditions form part of this Certificate.

## Appendix

### TYPE

Description	Type	Part Number	SW Version
Single monitored input unit	BN-303	P1-BN303-1-11	1.11
Single monitored input / output unit	BN-304	P1-BN303-1-11	1.11
Dual monitored input /output device with short circuit isolator	BN-305	P1-BN303-1-11	1.11
Input / output unit for interfacing external units	BN-305-D	P1-BN303-1-11	1.11
Input /output device with short circuit isolator	BN-307	P1-BN-307-1-8	1.8
Conventional interface device with short circuit isolator	BNB-330A	P1-BN-330A-1-2	1.2
Conventional loop interface	BNB-331	P1-BN-331-1-5	1.5
Active end-of-line unit	BNY-330	P1-BN-331-1-5	1.5