



## 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>Place of Production</b>	Autronica Fire & Security AS Bromstadvegen 59, Trondheim, 7047, Norway
<b>Type</b>	Fire Detection Alarm Systems
<b>Description</b>	Input / output units with SelfVerify for fire detection systems, AutoSafe or AutoPrime  For detailed product description, pls. refer to appendix.
<b>Trade Name</b>	BN-303, BN-304, BN-305, BN-305-D, BN-307, BNB-330A, BNB-331, BNY-330
<b>Application</b>	Marine, Offshore and Industrial applications for use in environmental categories ENV1, ENV2 and ENV3, as defined in Lloyd's Register Type Approval System, Test Specification Number 1 – December 2021.
<b>Specified Standard</b>	EN 54-17: 2005 EN 54-18: 2005 IEC 60092-504: 2016 IACS UR E10 Rev. 8: 2021

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### Additional Tests

Compass safe distance (BN-303, BN-304, BN-307):  
Standard: 20 cm  
Steering: 15 cm

Degree of protection:  
IP54 (BN-303, BN-304, BN-305, BN-307)

### Other Conditions

For systems consisting of the listed components the final functional arrangement and application software are to comply with appropriate Lloyd's Register Rules and Regulations and shall be subject to project related Plan Approval Process, when installed on LR classed vessels. Documents and drawings for the actual application are to be provided according relevant LR Rules and Regulations.

BN-305-D shall be installed in an external enclosure which has an IP grade of at least IP66.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

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.

### Previous Version:

This certificate supersedes certificate number LR2004284TA issued on 18 June 2020 which is hereby cancelled.

The Design Appraisal Document TSO/24-013805 and its supplementary Type Approval Terms and Conditions form part of this Certificate.