Certificate No: LR2025079TA
Issue Date: 13/10/2020
Expiry Date: 29/06/2025

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 And Gas Detection Alarm And Control Systems
Description	Fire detection and alarm system AutroSafe 4 comprising following components: BS-420 Fire alarm control panel BS-420M Fire alarm control panel BS-420G Fire alarm control panel BS-420G2 Fire alarm control panel BC-420 Controller BC-440 Controller BS-430 Operator panel BU-420 Repeater panel BV-420 Repeater panel BP-405 Power Cabinet BPS-405 Power supply unit BPS-410 Power supply unit BSD-321 AutroFieldBus* BU-110 Fire brigade loop panel* BV-110 Information loop panel*
Trade Name	AutroSafe 4
Application	Marine, offshore and industrial applications suitable for use in environmental

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Thorsten Wolff

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A member of the Lloyd's Register group

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categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2013.

Specified Standard

EN 54-2:1997+A1:200
EN54-4:1997+A1:2002+A2:2006
IACS unified requirements E10 (Rev.7 Oct 2018) except items marked with "*"

Additional Tests

Low temperature test:(-15°C/16h) except BU-110, BV-110
Enclosurerating: IP32

Other Conditions

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.
Items marked with "*" have to comply with IACS E10 Rev.7 when intended to be installed on ships contracted for construction on or after 1 January 2022.

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 40520-20/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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