Certificate No: LR21438492TA
Issue Date: 19/07/2019
Expiry Date: 18/07/2024

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	**Schaller Automation Industrielle Automationstechnik GmbH & Co. KG**
Address	Industriering 14, Blieskastel, 66440, Germany
Type	Oil Mist Detectors
Description	Oil Mist Detectors for Diesel- and Gas Engines
Trade Name	VN2020, VN2020 EX
Application	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2, ENV3 and ENV4 as defined in Lloyd's Register Type Approval System, Test Specification Number 1 – 2019. Application is only use for "General Power Distribution Zones".
Specified Standard	Manufacturer's specification IACS UR M67 2005 / Rev. 2 on February 2015 IACS UR E10 Rev.7
Ratings	VN2020 EX Ex II (2G) [Ex op is IIB T4 Gb] +5°C ≤ Ta ≤ 70°C
Additional Tests	Enclosure test: IP 54
Other Conditions	The suitability of the installation of the Oil Mist Detector is to be demonstrated in accordance with IACS UR M10 latest version for each type of engine. VN2020 EX is suitable for use in ATEX Zone 1 and Zone 2.

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Thomas Milow

Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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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.

Previous Version: 19/20049

The Design Appraisal Document HTS/ETS 38502-19 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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