Certificate No: LR2003074TA
Issue Date: 26/04/2020
Expiry Date: 25/04/2025

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	**Hirschmann Automation and Control GmbH**
Address	45-51 Stuttgarter Str., Neckartenzlingen, 72654, Germany
Type	Control Units
Description	ETHERNET Local Area Network Data Communication Equipment Industrial ETHERNET Rail Switch Rugged RSR20
Trade Name	RSR20-0800T1T1T1SCCHP, RSR20-0800M2M2T1SCCHP, RSR20-0800S2S2T1SCCHP
Application	Marine applications for use in environmental categories ENV 1, ENV 2, ENV 3 (General Power Distribution Zones) as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2015.
Specified Standard	Manufacturer's specification IEEE 1613:2009
Ratings	RSR20-0800T1T1T1SCCHP 8x100Mbit/s TXTwisted Pair ports RJ45connectors RSR20-0800M2M2T1SCCHP 2x100Mbit/sMultimode FX ports DSCconnectors 6x100Mbit/sTX Twisted Pair ports RJ45 connectors

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RSR20-0800S2S2T1SCCHP
2x100Mbit/sSinglemode FX ports
DSCconnectors
6x100Mbit/sTX Twisted Pair ports RJ45 connectors

Other Conditions

Equipment has to comply with IACS E10 Rev.7 when intended to be installed on ships contracted for construction on or after 1 January 2022.
Compliance with IEC 61850-3:2013 has not been verified by documentary evidences.

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 39876-20/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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