Certificate No: LR2023841TA
Issue Date: 21/09/2020
Expiry Date: 20/09/2025

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 **OMRON (SHANGHAI) CO.,LTD**

Address 789 JinJi Road, Jinqiao Export Processing Zone, Pudong, Shanghai, 201206, China

Place of Production OMRON (SHANGHAI) CO.,LTD

789 JinJi Road, Jinqiao Export Processing Zone, Pudong, Shanghai, 201206, China

Type Timers

Description System Model: H3CA series
H3CA-8, H3CA-8H, H3CA-A, H3CA-FA

System Model: H3DT series
H3DT-N1, H3DT-N2, H3DT-L1, H3DT-L2,
H3DT-A1, H3DT-A2, H3DT-F, H3DT-G,
H3DT-HBS, H3DT-HBL, H3DT-HCS, H3DT-HCL,
H3DT-HDS, H3DT-HDL;

Trade Name Solid-state Timer

Application Marine applications for use in environmental categories ENV1 and ENV2 in the "General Power Distribution Zones" as defined in LR Type Approval System Test Specification No. 1 July 2015 where the Test Specification is satisfactory for the intended operation.

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Ke Lin Zhang

Senior Specialist to Lloyd's Register
Classification Society (China) Co Ltd
A member of the Lloyd's Register group

19th Floor, 550 Yan An dong Road, Shanghai,
Huangpu District, China

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Specified Standard	Manufacture's specification:-
Ratings	Details see attached Appendix
Additional Tests	Dry Heat Test: 16 hours at 70 ℃; Low Temperature Test: 16 hours at -10 ℃ for H3CA series; 16 hours at -20 ℃ for H3DT series;
Other Conditions	1. Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations. 2. 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. 3. (In case of applications other than Marine) The application of this Type Approval Certificate will be limited to the relevant scope of the Specified Standards and acceptance thereof by the local authorities.

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 Classification Society (China) Co Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. LR2023841TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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