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Certificate No: LR2039260TA Issue Date: 30/10/2020 Expiry Date: 21/08/2025

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 [DEIF	A/S
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Address Frisenborgvej 33, Skive, 7800, Denmark

Type Power Distribution Systems & Power Supplies

Description Alarm panel

Trade Name AL8-2

Application Marine, offshore and industrial applications for use in environmental

categories ENV1, ENV2 and ENV3 in power distribution zone as defined in Lloyd's Register's Type Approval System, Test Specification Number 1-2002.

Specified Standard Manufacturer's specification

Ratings Power supply: 24 Vdc

Inputs: 8 n/o or n/c contacts

Outputs: 3 relay outputs (250V/2A/400W AC; 250V/1A/50W DC)

Additional Tests Low temperature (-25°C/16h)

Other Conditions The complete installation is subject to a separate plan appraisal according to

applicable Rules and Regulations when installed on Lloyd's Register classed

vessels.

Thorsten Wolff

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

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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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.

The Design Appraisal Document No. HTS/ETS 40585-20/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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LLOYD'S REGISTER TYPE APPROVAL – DESIGN APPRAISAL DOCUMENT ISSUED BY: HAMBURG TECHNICAL SUPPORT OFFICE (HPC1562223) ISSUED TO: DEIF A/S, SKIVE, DENMARK FOR: ALARM PANEL

TYPE AL8-2

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System Procedure TA14 Version 04 (September 2020) and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Unnumbered Type Approval Application Checklist 21.10.2020 CPN2000882/spw Request for Marine Services – Type Approval 28.10.2020 HTS/ETS 32827-15 Marine Design Appraisal Document for Certificate No. 07/20039 (E2) 09.12.2015 07/20039 (E2) LR Type Approval Certificate 09.12.2015 HPC1662083 / HPC1962114 **Production Quality Assessment Form** 13.01.2020 4921230002E Data sheet Alarm panels Type AL8-2 undated





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Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations. Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.

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