Certificate No: LR26147723TA
Issue Date: 17/04/2026
Expiry Date: 24/05/2031

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	**Consilium Marine & Safety AB**
Address	Salsmästaregatan 21, Hisings Backa, 422 46, Sweden
Place of Production	Consilium Safety Sweden Production AB (CSSP) Södra Hildedalsgatan 6, Gothenburg, 417 05, Sweden
Type	Smoke Detection and Alarm System
Description	Smoke and Heat Detector, Detector Base
Trade Name	CD-PH and CD-B
Application	Marine and Offshore use in environmental categories ENV1, ENV2 and ENV3 as defined in LR Type Approval System Test Specification No.1: July 2024.
Specified Standard	EN 54-7 :2018, EN 54-5 :2017 + A1 :2018, EN 54-17 :2005 + AC :2007, IEC 60092-504 :2016, IEC 60533 :2015, IEC 60529 :1998+A1 :1999+A2 :2013
Ratings	20-38 V DC CD-PH IP44
Additional Tests	IEC60945:202 Clause 11.2 Compass Safe Distance: 30cm

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Pawan Borate

Specialist Electrical & Control to Lloyd's Register Marine and Offshore India LLP
A member of the Lloyd's Register group

Units 1702-1704, 17th Floor (Level-13), Building Q2, Aurum Q Parc; Gen 4/1 TTC, Thane-Belapur Road, Ghansoli, Navi Mumbai, 400710, India

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Other Conditions

1. Type Approval does not eliminate the need (as required by LR Rules) the requirements for further review or for the product to be further inspected and/ or surveyed to be installed in ships classed or intended to be classed with LR.

2. If the specified standards are amended during the validity of this certificate, the product is to be reapproved prior to it being supplied to vessels to which the amended standards apply.

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 Marine and Offshore India LLP of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR21197659TA

The Design Appraisal Document TSO-26-056727-E-01 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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