Certificate No: LR2674874TA
Issue Date: 25/02/2026
Expiry Date: 15/03/2031

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	**Tyco Fire & Security GmbH**
Address	Victor Von Bruns-Strasse 21, Neuhausen am Rheinfall, 8212, Switzerland
Place of Production	Tyco Fire & Security Czech Republic s.r.o. Osvobození 363, Ráječko, Rájec – Jestřebí, 679 02, Czech Republic
Type	Fire And Gas Detection Alarm And Control Systems
Description	700 Series conventional detectors - Marine
Trade Name	711P, 711PH, 711H, 712H, 713H
Application	Marine and Offshore applications (ENV1, ENV2 and ENV3 categories) 711P - Optical detector 711PH - Optical with heat enhancement detector 711H - Heat rate of rise detector 712H - Heat fixed 60°C detector 713H - Heat fixed 90°C detector The 700 series conventional detectors are plug-in detectors for ceiling mounting. The detectors plug into a 4B Base or a 4B-D Conventional Diode Base. Also, the detectors are compatible with the legacy 5B Base and 5BD Diode Continuity Base.

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Ashwinikumar Mhamal

Electrical & Control Technical Manager - Africa, Middle East & India, Lead Specialist to Lloyd's Register Marine and Offshore India

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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Type Approval Certificate

Specified Standard

LR Type Approval Test Specification No.1 - July 2024
EN54-7: 2018
EN54-29: 2015
EN54-5: 2017+A1: 2018
IEC 60533:2015
IEC 60092-504: 2016

Ratings

Operating voltage: 24 VDC
Average quiescent current: 50 µA (P model)
60 µA (PH model)
37 µA (H models)
Alarm current: 65mA at 30V, 35mA at 20V, 12,5mA at 12 V

Additional Tests

1. Cold: -25°C (16 h)
2. Salt mist : according to IEC 60068-2-52 Test Kb to method 1

Other Conditions

1. IP-rating*: 711P/711PH - IP44
711H/712H/713H - IP55
(*) - IP-rating when installed using a 4B-DHM 4" Deck Head Mount.
Ingress protection is to be maintained during installation, for example, the cable glands must also be IP-rated accordingly

2. Appropriate for the installation on bridge with reference to EMC aspects

3. 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

4. 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.

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

Previous Version: LR21113870TA

The Design Appraisal Document TSO-25-050942-E-01 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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