Certificate No: LR26166144TA
Issue Date: 11/04/2026
Expiry Date: 10/04/2031

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 **PANASIA Co., Ltd.**

Address 55, Mieumsandan 3-ro, Gangseo-gu, Busan, 46744, South Korea

Type Switches - Level

Description

Model PM-12H Series:
PM-12H, PM-12H-S, PM-12H-ST, PM-12H-T, PM-12H-C, PM-12H-CT, PM-12H-E, PM-12H-ET

Model PM-12V Series:
PM-12V, PM-12V-S, PM-12V-ST, PM-12V-T, PM-12V-E, PM-12V-ET

Model PM-90 Series:
PM-90AT-1C, PM-90AT-2C, PM-90AT-3C

Trade Name PM Series

Application Marine and offshore applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in LR Type Approval System Test Specification Number 1 – 2024 where the Test Specification is satisfactory for the intended operation.

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Gun-Nam Park

Electrical & Control - Senior Specialist to
Lloyd's Register Asia
A member of the Lloyd's Register group

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

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Specified Standard	Manufacturer's standards : No.DS-PA-12-01 & DS-PA-90-01 JIS standards to flange sizes & ratings for steel pipes IEC60529 for Enclosure IP56, 65, 68
Ratings	Max. Working Pressure: 3kg/cm^2, Switch Rating: 5A,125Va.c., 3A, 250Va.c.
Additional Tests	Low temperature test at -25°C
Other Conditions	Explosion Proof Type involved in this system is subject to the approval of a competent authority for the gasses encountered. 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. 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 Asia of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR21131195TA

The Design Appraisal Document LR26166144TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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