Certificate No: LR26166120TA
Issue Date: 22/04/2026
Expiry Date: 15/07/2031

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 Detection Alarm Systems
Description	P80AIB-M and P85AIR-M Addressable Visual Indicator Base Sounder Beacons including short circuit isolator. P80SW-M and P80SB-M, addressable Wall Sounder Beacons including short circuit isolator. 80DSB-M Marine Detector Base Sounder. The Marine Visual Indicating Device (VID) Sounder Beacons (P80AIB-M and P85AIR-M) and Sounders (P80SW-M and P80SB-M) are loop powered units that are driven from an addressable controller panel. They are available in ceiling and wall mounted variants. The ceiling mounted variants provide a base for fitting a fire detector, or a blanking cap is fitted. Built-in two port loop short circuit isolator. Settings for tones, volume, beacon flash and status monitoring are configurable using the control panel. Selectable flash rates are: 1Hz (one flash every second) 0.5Hz (one flash every two seconds) 80DSB-M Marine Detector Base Sounder is a loop powered device that is controlled by the detector plugged into it. A DIL switch sets the required tone and volume level.

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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

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Trade Name	Zettler Marine Visual Indicator Sounder Beacon Series and Detector Sounder Base
Application	Marine, offshore and industrial use in environmental categories ENV1, ENV2 and ENV3 as detailed in Lloyd's Register Test Specification No1, 2024
Specified Standard	**P80AIB-M,P85AIR-M, P80SW-M, P80SB-M, and 80DSB-M** LR Test Specification No 1 2024 IEC 60092-504:2016 IEC 60529:1991 + A1:2000 + A2:2013 **P80AIB-M,P85AIR-M, P80SW-M and P80SB-M:** EN54-3:2014:A1:2019, Acoustic signalling device EN 54-17:2006 -Part 17: 2005 Short-circuit isolators **80DSB-M** EN54-3:2014:A1:2019
Ratings	**MARINE VISUAL INDICATOR SOUNDER BEACON SERIES** **Ceiling Devices:** P80SB-M (576.080.002) Indoor Type A Loop Voltage: 20-40VDC, 35V nominal Typical Sounder output at 1m: High Volume: 90dBA Mid High Volume: 80dBA Mid Low Volume: 70dBA Low Volume: 60 dBA (Non EN54-3 Compliant) Operating Temperature: -25 to +70C Humidity up to 95% non condensing

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Enclosure: IP21C

P80AIB-M, (576.081.010)
Indoor Type A
Typical Sounder output at 1m:

High Volume: 90dBA
Mid High Volume: 80dBA
Mid Low Volume: 70dBA
Low Volume: 60dBA (Non EN54-3 Compliant)

Loop Voltage: 20-40V DC, 35V nominal
Operating Temperature: -25 to +70C
Humidity up to 95% non condensing
Enclosure: IP 21C

Wall Devices:
P80SW-M (576.081.003)
Indoor Type A
Typical Sounder output at 1m:

High Volume: 100dBA
Low Volume : 90 dBA

Loop Voltage : 20-40V DC, 35V nominal
Operating Temperature: -10 to +55C
Humidity up to 95% non condensing
Enclosure: IP 21C

P85AIR-M, (576.081.013)
Loop voltage: 20-40V DC , 35V nominal
Outdoor Type B
Typical Sounder output at 1m:

High Volume: 100dBA
Low Volume: 90 dBA

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Operating Temperature: -25 to +70C
Humidity up to 95% non condensing
Enclosure: IP 55

DETECTOR SOUNDER BASE

Sounder Base:
80DSB-M, (576.081.001)
Indoor Type A
Loop voltage: 20-40V DC , 35V nominal
Operating Temperature: -25 to +70C
Humidity up to 95% non condensing
Enclosure: IP21C

NOTE:
For IP21C protection a fire detector or blanking cap must be fitted to the base variants

Additional Tests

P85AIR-M, Enclosure to IP 55 on accordance with IEC 60529
P80SW-M, Saltmist to IEC 60068-2-52, Test Kb to method 1

Other Conditions

80DSB-M is to be used with MED approved addressable detectors.
P85AIR-M is not for use on open decks

Systems comprising of the components described above are subject to a separate design appraisal according to the applicable Rules and Regulations when installed on LR classed vessels.

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 re-approved 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: LR21277780TA

The Design Appraisal Document TSO/26-057113-E-01 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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