



Confirmation of Product Type Approval

Company Name: DELTA MOBREY LTD

Address: HUDSON HOUSE ALBANY PARK CAMBERLEY GU16 7PL United Kingdom

Product: Float Operated Magnetic Level Switch

Model(s): Mobrey float level switch

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	24-2519528-PDA	04-MAR-2024	03-MAR-2029
Manufacturing Assessment (MA)	19-NC3734321	26-SEP-2019	25-SEP-2024
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

General purpose and submersible level measurement devices with optional test device for marine and offshore hazardous applications.

Description

Mobrey float level switches are divided into general purpose type and submersible ExD marine type and composed of switch head with inserts, floats, body and plunger type test device.

(See the attachment for further description and rating)

Ratings

1. AC Inductive

- Max. voltage: 440VAC
- Max. current: 5 (Below 210°C the maximum current is 8 A)
- Max. power: 2000VA
- Power factor: 0.4

2. DC Inductive

- Max. voltage: 240VDC
- Max. current: 1

- Max. power: 35W
- Time constant: 40ms max.

3. DC Resistive

- Max. voltage: 240VDC
- Max. current: 2
- Max. power: 70W

4. Rating for submersible type

- Enclosure protection: IP66 / IP68 (30M)
- II 2G Ex db IIC T6 Gb

(See the attachment for further description and rating)

Service Restrictions

1. Unit Certification is not required for this product.
2. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
3. ATEX certified equipment is not to be installed in hazardous areas on U.S. Flagged Vessels, unless it can be proven to have been tested to the IEC 60079 series standards by an independent laboratory accepted by the U.S. Coast Guard.

Comments

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Application and use are to be in accordance with the manufacturer's instructions.

Notes, Drawings and Documentation

1. Manufacturer's Type Approval Documentation:
 - Drawing nos. 71097/598, 71097/837, 71097/641, 71097/836, 71097/706, 71097/838 and 71097/1173
2. Test Reports:
 - EMERSON PROCESS MANAGEMENT: report no. AR1047 dated 21 Jan. 2010

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 03/Mar/2029 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time

of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

2024 Marine Vessel Rules: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/1.7, 4-8-3/1.11, 4-9-9/7, 4-9-9/13 & Table 1

2024 Mobile Offshore Unit Rules: 1-1-4/9.7, 1-1-A2 & 1-1-A3

2024 Facilities on Offshore Installations: 1-1-4/9.7, 1-1-A2 & 1-1-A3

International Standards

IACS UR E10 (Rev.8)

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 11-Apr-2024 3:42

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.