



TYPE APPROVAL CERTIFICATE

Certificate no.:
TAA00002GZ
Revision No:
1

This is to certify:
that the Level Switches

with type designation(s)
S*/**

issued to
Delta Mobrey Limited
Camberley, Surrey, United Kingdom

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Location classes:

Temperature	A
Humidity	B
Vibration	B
EMC	Not relevant
Enclosure	D
	except S01: Class B

Issued at **Høvik** on **2024-10-08**

for **DNV**

This Certificate is valid until **2029-06-30**.
DNV local unit: **UK & Ireland CMC & VMC**

Approval Engineer: **Ståle Sneen**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.



Product description

Type S***/ covering the following Switch Housings:

Fine Silver Contacts:	Gold plated contacts:
S01DB	S01PB
S03DBL, S03D6BL	S03PBL, S03P6BL
S163DL	S163PL
S179DB, S179D6B	S179PB, S179P6B
S181D	S181P
S183DBL, S183D6BL	183PBL, 183P6BL
S187DBL, S187D6BL	S187PBL, 187P6BL
S189DB, S189D6B	S189PB, S189D6B
S195DBL, S195D6BL	S195PBL, S195P6BL

<i>The following Float Units may be used with the above Switch Housings:</i>
F21, F68, F84, F88, F93, F96, F98, F104, F185, F264

Place of manufacture

Delta Mobrey Limited
 Hudson House, Albany Park, Camberley
 Surrey GU16 7PL
 United Kingdom

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Application/Limitation

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.

Type Approval documentation

Drawings:	71097/641 rev. 2, 71097/642 rev. 3, 71097/837 rev. 4, 71097/836 rev. 4, 71097/633 rev. 4, 71097/1173 rev. AC
Data sheet:	IP101 rev. ED
Instructions:	Instruction Leaflet M310 Rev. AB Nov 2008 Instructions specific to hazardous area installations M310/SI Rev. AA Nov 2005 PED Safety Instructions M310/SI Exd. Rev. AC Nov 2008 ATEX Safety Instructions, M310/SI Exn. Rev. AB Nov 2008 ATEX Safety Instructions
Test report:	No. 4402 dated 12/01/06 - S183DBL/F84 – IPX8 to 30m Type approval renewal assessment report for TAA00002GZ, UK & Ireland CMC & VMC 2024-07-16.

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021.

Marking of product

The products to be marked with:

- model name
- manufacturer name
- serial number

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE