

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Level Switches**

with type designation(s)
S*/**

Issued to

Delta Mobrey Ltd
Farnham, Surrey, United Kingdom

is found to comply with

DNV GL 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 GL.

Location classes:

Temperature A

Humidity B

Vibration With switch inserts type D6, P6, H6: Class A

With switch inserts type D and P: Class B

EMC Not relevant

Enclosure C

Issued at **Høvik** on **2019-11-07**

This Certificate is valid until **2024-06-30**.

DNV GL local station: **Southampton**

for **DNV GL**

Approval Engineer: **Nils Jarem**

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Trond Sjøvåg
Head of Section

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.



Job Id: **262.1-003035-12**
Certificate No: **TAA00002H0**

Product description

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

S36xx/F..	S190xx/F93	S417xx/F..	S418xx/F..	S419xx/F..
S424xx/F..	S425xx/F..	S428xx/F.. to S437xx/F..	S440xx/F..	S441xx/F..
S488xx/F..	S489xx/F..	S490xx/F..		

Material suffix:	A, B, G and S
Switch insert suffix:	D, P, D6, P6, H6, B6

The following Float Units may be used with above Switch Housings:

F21/1, F21/2, F21/3, F68/1, F68/4, F84, F88, F93, F96, F98, F104/1, F104/2, F104/3, F106 and F107.

Place of manufacture

Delta Mobrey Limited
158 Edinburgh Avenue
Slough SL1 4UE
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 GL, 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 GL 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

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2016.

Marking of product

The products to be marked with:

- model name
- manufacturer name
- serial number

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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