

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Light Fitting

with type designation(s)
SL-400, SL-450

issued to

Daniamant Ltd
Portsmouth, Hampshire, United Kingdom

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

This certificate is recognized by Transport Canada.

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

Vibration class	A
Degree of protection	IP68
Temp. class	N/A
Voltage (V)	12
Suitable for Hazardous areas	No

Issued at Høvik on **2024-04-03**

for **DNV**

This Certificate is valid until **2029-04-02**.

DNV local unit: **UK & Ireland CMC & VMC**

Approval Engineer: **Marcin Tobiasz**

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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 300,000 USD.



Name and place of manufacturer

Daniamant Ltd, Unit 3, The Admiral Park, Airport Service Road, Portsmouth, United Kingdom
Daniamant A/S, Industrivej 24 C, Slangerup, Denmark

Product description

"SL-400, SL-450"

Manually controlled flashing position indication lights for survival craft –SL-400 and SL-450.

Application/Limitation

For compliance with SOLAS Regulation III/35 and III/36, fully detailed operations and maintenance manuals shall be supplied with each light.

The SL-400 and SL-450 are intended for motorized survival craft and to be connected to the craft's 12V electrical system.

Type Approval documentation

Technical file doc. No. TF022, revision 01

Installation and Maintenance Instruction, Doc. No 24-113-001 Issue 1 (C6645)

Installation and Maintenance Instruction, Doc. No 24-351 Issue 1 (C6916)

Test report No	Title	Date
75937678/04, issue 1	Light output test	2017-05
75934622/01, issue 3	Measurement of Chromaticity, Moulded growth test, Rain and water tightness test	2017-07
75934622/02, issue 3	Optical testing of SL400 Lifebuoy lights	2017-05
75937678/01, issue 1	Temperature cycling test	2017-06
OC-0599-03	Optical testing of Life Boat Lights Jotron type SL-400.	2016-07-20
E10024.00	Vibration test	2010-01-27
E10091.00	Rain and water tightness test	2010-04-09
6P06382	Solar radiation test	2016-07-30
6P05666	Fire tests on SL-400	2016-08-09
15702, Issue 2	Moulded growth test	2016-07-21
21511/01 Issue 01	IP6X test certificate for SL-400 and SL-500	2021-02-22
75950185 SoT 03 Issue 2	IPX8 test certificate for SL-400	2021-02-10

Tests carried out

IMO Resolution MSC.81(70), part 1, as amended

IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008)

ISO 24408:2005

Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "Procedures for Approval of Life-Saving Appliances, Fire Safety Systems, Equipment and Products (TP14612E)", DNV confirms that the product listed in this certificate is in accordance with Transport Canada's requirements.

Marking of product

The product is to be marked with manufacturers name, type designation, serial or lot number and date of expire. The expiring date shall be marked in accordance with the LSA Code, item 1.2.3 as amended by IMO Res. MSC 48(66).

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)

- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Assessment to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE