

# TYPE APPROVAL CERTIFICATE

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**This is to certify:**

**That the Liferaft lights**

with type designation(s)

**RL5**

Issued to

**Daniamant Ltd**

**Portsmouth Hampshire, United Kingdom**

is found to comply with

**DNV GL rules for classification – Ships and offshore units**

**Application :**

**This certificate is recognized by Transport Canada.**

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This Certificate is valid until **2021-06-27**.

Issued at **Høvik** on **2016-06-28**

DNV GL local station: **Copenhagen**

Approval Engineer: **Marta Alonso Pontes**

for **DNV GL**

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**Marit Laumann**  
**Head of Section**

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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.

Job Id: **262.1-022217-1**  
Certificate No: **TAE0000181**

## Product description

Daniamant RL5 manually controlled liferaft light.

High intensity flashing light for mounting externally on liferafts, together with a continuous light for internal illumination of the raft. The unit is fully sealed and watertight, and comprises a battery and switch unit which houses the internal lamp, and a flying lead terminating in the external flashing lamp. The lead is detachable to allow the battery unit to be changed. All lamps are maintenance-free solid-state LEDs. A single-point breakaway toggle is provided to switch on both lamps; lamps can be controlled individually if required.

### Dimensions internal light/Battery:

Length: 99 mm  
Width: 39 mm  
Height: 54 mm

### Dimensions External light:

Diameter: 70 mm  
Height: 35 mm  
Lead Length: Various mm

## Application/Limitation

Instructions from maker given in the instruction manual to be followed.

The arrangement and installation of the lights onboard are not part of this approval.

The RL5 battery/light unit has a storage life of 5 years and must be replaced before or on the date shown on the product label.

## Type Approval documentation

Drawings and test reports listed in App. Letter MCANO381/PONT/262.1-022217-J-6 dated 24/06/2016

## Tests carried out

Tested in accordance with the requirements of TP14475/IMO Resolution MSC.81 (70), as amended.

## Marking of product

- Intended use (Liferaft light)
- Serial number and manufacturing date
- Manufacturer identification
- Easily understandable symbols for on/off switching
- Expiry date\*
- TAEXXXXXXX (DNV GL approval)
- Marking on the battery: BAT MM/YY (expiry date)

\* 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 least every second year.

END OF CERTIFICATE