



Certificate No:  
**TAE00004CC**

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Light Fitting**

with type designation(s)  
**RL7**

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.**

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

Issued at **Høvik** on **2021-10-18**

for **DNV**

This Certificate is valid until **2026-10-17**.

DNV local station: **Denmark CMC**

Approval Engineer: **Nicolay Horn**

**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.

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.



## Product description

Position indication lights for Liferaft Internal and External light – Type RL7 (including other brand variants)

It incorporates an internal light and an external light which are individually switched. It consists of two main units connected by a lead. The larger component is designed to be fitted inside the liferaft. It includes the internal light, power source for both lights and the switches. The external light is connected via a lead that can be unplugged to aid installation. A pull toggle is provided that will, when pulled, activate both lights and then detach. This will enable the light to be automatically activated on liferaft inflation.

Dimensions internal light:

Length: 78.75 mm  
 Width: 89 mm  
 Height: 42 mm

Dimensions external light:

Diameter: 70 mm  
 Height: 23.75 mm  
 Lead Length: 6.5 m

## Application/Limitation

Lights powered by batteries shall be marked with means of determining their age or the date by which they are to be replaced.

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

## Type Approval documentation

Technical file doc. No. TF026, revision 01

Installation and Maintenance Instruction RL 7 Liferaft Lights, 47-112 Issue 01 (C6884)

Test report No	Title	Date
21-02	RL7 Evaluation and test report	2021-05-06
75950185, Report 01 Issue 1	Environmental Testing of the RL7 Life Internal and External Light Unit	2021-05
J-5036	Mould Growth Test	2013-10-15
OC-1082	Optical testing Internal and External Light Unit samples RL7	2021-04-28

## Tests carried out

- IMO Resolution MSC.81(70), part 1, as amended
- IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008)

## Transport Canada Approval

Based on the procedure laid down in the Transport Canada Publication "Canadian Life Saving Appliance Standard /TP14475E. DNV confirms that the product(s) tested in this certificate is/are in accordance with Transport Canada's requirements.

## Marking of product

- Intended use (Liferaft light)
- Serial number and manufacturing date
- Manufacturer identification
- Easily understandable symbols for on/off switching
- Expiry date\*
- TAE00004CC (DNV 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 2 and 3.5 year and at renewal.

END OF CERTIFICATE