

Certificate No: **TAE00004TH**

TYPE APPROVAL CERTIFICATE

This is to certify:		
That the Light Fitting		
with type designation(s) L90 LED		
Daniamant Ltd Portsmouth, Hampshire, United Kingdom is found to comply with DNV rules for classification – Ships, offshore units, and high speed and light craft		
This certificate is recognized by Transport Canada.		
Product(s) approved by this cer	tificate is/are acc	cepted for installation on all vessels classed by DNV.
Vibration class Degree of protection Temp. class Voltage (V) Suitable for Hazardous areas	A IP68 N/A 7.5 No	
Issued at Høvik on 2023-10-23		for DAIM
This Certificate is valid until 2028-	10-22.	for DNV
DNV local unit: UK & Ireland CM	C & VMC	
Approval Engineer: Marcin Tobiasz		Frederik Tore Elter
		Head of Section

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.



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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.



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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

"L90 LED"

is a dry cell powered self-activated lights for lifebuoys.

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.

Maximum installation Height: 76 m.

Type Approval documentation

Report No. 23-01 issue 2 dated 5 October 2023 from Daniamant including:

- Test Report No. 75958630-01 Issue 01 dated 29 September 2023 from TÜV SÜD,
- Test Report No. 75958630-02 Issue 01 dated 28 September 2023 from TÜV SÜD,
- Test Report No. 75958630-03 Issue 01 dated 5 October 2023 from TÜV SÜD,
- Test Report No. 75958630-04 Issue 01 dated 4 October 2023 from TÜV SÜD,
- Test Report No. 75958630-05 Issue 01 dated 4 October 2023 from TÜV SÜD.

Test Report No. J-5036 dated 15 October 2013 from Murphy and Son.

Drawing No. 63-4000D dated 22 February 2007 from Daniamant. Drawing No. 63-4001D dated 27 February 2007 from Daniamant. Drawing No. 63-101D Issue 12 dated 3 October 2023 from Daniamant.

Installation & maintenance instruction 63-410 Issue 2 from Daniamant.

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

To be marked with information requested by the LSA Code Paragraph 1.2.2.9 and 1.2.3

- Manufacturer name
- Type identification
- Intended use (Lifebuoys light)
- Serial or Lot number
- Date of expiry*
- TAE00004TH (DNV approval)

Periodical assessment

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^{*} The expiring date shall be marked in accordance with the LSA Code, item 1.2.3 as amended by IMO Res. MSC 48(66).



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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

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