



Lloyd's
Register

Transport
Canada
Safety and Security



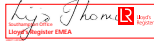
CERTIFICATE OF TYPE APPROVAL ISSUED ON BEHALF OF TRANSPORT CANADA

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations with regards to the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations) when authorised by Transport Canada to issue the relevant certificates, licences, permits etc.

Manufacturer	Daniamant Ltd
Address	Unit 3 The Admiral Park Airport Service Road Hilsea Portsmouth Hampshire, PO3 5RQ United Kingdom (UK)
Type	Position-indicating lights
Description	Position indicating flashing lifejacket light, with manually activated switch -- type "Odeo Strobe"
Specified Standard	IMO Res. MSC.81(70), Part 1, as amended. TP 14475E

**The attached Design Appraisal Document forms part of this certificate.
This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.**

Date of issue	20 August 2019	Expiry date	19 August 2024
Certificate No.	LRTC 0000246	Signed	
Sheet No	1 of 3	Name	L. Thomas Surveyor to Lloyd's Register EMEA A Member of the Lloyd's Register Group

Note:

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register of any modification or changes to the equipment in order to obtain a valid Certificate.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



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Lloyd's Register EMEA (Southampton)

Marine & Offshore UK&I

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DESIGN APPRAISAL DOCUMENT

Date	Quote this reference on all future communications
20 August 2019	UKITSO/LSA/TA/LT/WP34428463

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LRTC 0000246

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Technical File: TF025 Rev.01.

ODEO Strobe™ Installation and Maintenance Instructions, Document No: 32-109 Issue 1 (C6789)

TEST REPORTS

Odeo Strobe Evaluation and Test Report no. 19-03, Issue 2, dated 12 June 2019, including TUV SUD laboratory report 75944065 Report 01 Issue 2, dated 10 June 2019

CONDITIONS OF CERTIFICATION

1. Each light shall be clearly marked with:
 - a. The manufacturer's name or trademark, the model designation and lot number
 - b. Transport Canada approval number assigned to the light
 - c. Instructions on how to activate the light
2. Lights powered by batteries shall be marked permanently and legibly with the month and year of manufacture and its expiration
3. Lights powered by disposable batteries shall be marked permanently and legibly with the words "CHANGE BATTERIES ANNUALLY" on each light and records of battery changes shall be maintained by the end user
4. Each light is to be marked with the information required by the LSA Code Paragraph 1.2.2.9 and 1.2.3
5. Instruction for use in both English and French shall be provided with each light as prescribed by SOLAS Regulation III/35 one or more additional copies shall be provided for inclusion in the Vessel's Training Manual. Attachment and operating instructions shall be supplied in a format suitable for insertion into the vessel's training manual
6. The lifejacket type where the subject design of light is fitted should be tested in accordance with IMO Resolution MSC.81(70), I/10.3.3 to confirm the adequacy of their means of attachment
7. For compliance with SOLAS Regulation III/35 and III/36 fully detailed operations and maintenance manuals shall be supplied with each light
8. Lights which have reached their date of replacement shall be disposed of safely with due regard to their lithium batteries
9. The arrangements and installation of the lights on the lifejacket on board are not part of this design appraisal or certificate and are to be to the satisfaction of the Surveyors attending on board
10. If the specified standards are amended during the validity of this certificate, this product type is to be re-approved prior to it being supplied to vessels to which the amended standards apply
11. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype



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12. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81(70), Part 2, Paragraph 1.2. This does not preclude any further testing to additional requirements of the Marine Administration of the country where the ship is registered (i.e. the flag state) or those acting on behalf of that Administration
13. All instructions or markings that accompany life-saving appliances or are printed directly on the appliances must be in both English and French, as per Canadian procedures for approval of life-saving appliances and fire safety systems, equipment and products document no. TP 14612E (05/2011) paragraph 2.2.1.3. However, independent signage can be accepted in lieu of the instructions or marking required in paragraph 2.2.1.3 if it is in both English and French, highly visible (size, colour, posting location), water and weather proof and posted at each muster station and where the appliance is stored
14. Should a change of Place of Production from that stated below be required i.e. where the stages of manufacture/assembly/testing of this product take place, the new Place of Production is to be advised to us prior to the change taking place. This Certificate will require to be updated for Approval to be maintained

PLACES OF PRODUCTION

Daniamant Ltd
Unit 3 The Admiral Park
Airport Service Road
Hilsea
Portsmouth
Hampshire, PO3 5RQ
United Kingdom (UK)

Daniamant A/S
Industrivej 24C
3550 Slangerup
Denmark



Lijo Thomas
Senior Specialist
Fire & Safety, Statutory Discipline Team
UK&I Technical Support Office, Marine & Offshore
Lloyd's Register EMEA

Supplementary Type Approval Terms and Conditions

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).