



EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), designated as a "notified body" under the terms of the Merchant Shipping (Marine Equipment) Regulations 2016 (S.I. 2016 No. 1025) did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Life-saving appliance requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission Implementing Regulation (EU) 2018/773 indicating design, construction and performance requirements and testing standards for marine equipment, subject to any conditions in the Design Appraisal Document attached hereto.

Manufacturer (Applicant)	Daniamant Ltd
Address	
Address	Unit 3 The Admiral Park Airport Service Road Hilsea Portsmouth Hampshire, PO3 5RQ United Kingdom (UK)
Reference Regulation Item (No & Item designation)	Regulation (EU) 2018/773 MED/1.2c
Product Type	Position-indicating lights for life-saving appliances: (c) for lifejackets
Product Description	Position indicating flashing lifejacket light, with manually activated switch -- type: "Odeo Strobe"
Specified Standard	IMO Res. MSC.81(70), Part 1, as amended

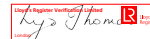
The attached Design Appraisal Document (schedule) forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Date of issue 20 August 2019 Expiry date 19 August 2024

Certificate No. MED 1950118

Signed



Sheet No 1 of 3

Name

L. Thomas
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038

Note:

This certificate is issued under the authority of the MCA.

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 the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.

This equipment is covered by the scope of the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment signed February 27th, 2004 and amended by Decision No.1/2018 dated February 18th, 2019 according to U.S. Coast Guard approval category USCG Module B number: 161.112/EC0038.

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production Module certificate (Module D, E or F)

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Lloyd's
Register

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Document number MED 1950118
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 20 August 2019	Quote this reference on all future communications UKITSO/LSA/TA/LT/WP34428463
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1950118

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

EXAMINED 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. The USCG approval of the Odeo Strobe position indicating light is valid only when fitted on Coast Guard approved life preservers, buoyant vests, and other personal flotation devices
2. Lights powered by batteries shall be marked with a means of determining their age or the date by which they are to be replaced. Each date must include the month and year
3. Each light is to be marked with the information required by the LSA Code Paragraph 1.2.2.9 and 1.2.3
4. Each light manufactured under Coast Guard approval must be permanently and legibly marked with:
 - (1) The manufacturer's name or trade mark that clearly identifies the model designation;
 - (2) The Coast Guard approval number assigned to light; and
 - (3) Instructions on how to activate the light
5. The light shall not be fitted by penetrating the buoyant material of the Personal Flotation Device
6. For compliance with SOLAS Regulation III/35 and III/36, fully detailed operations and maintenance manuals shall be supplied with each light. Each set of instructions must clearly identify the method of attachment of the light to the lifejacket
7. 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
8. Lights which have reached their date of replacement shall be disposed of safely with due regard to their lithium batteries
9. The arrangement 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 tests and inspections shall be carried out by the manufacturer as per sampling criteria set out in CFR 161.012-13 and submit a yearly report to commandant as per CFR 159.007-11
12. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E) or a Product Verification Process (Module F). **The wheelmark cannot be affixed to the product until a conformity assessment module is in place**



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13. Production tests are to be conducted to ensure compliance with SOLAS Chapter III Regulation 5 and recorded by the manufacturer in accordance with either the approved Production Quality Assurance system (Module D), or Product Quality Assurance (Module E), or witnessed by the Notified Body (LRV) as required by the Product Verification (Module F) of the Marine Equipment Directive. 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
14. Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place
15. 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
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038