



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 appliances requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission Implementing Regulation (EU) 2017/306 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 A/S
Address	Industrivej 24C 3550 Slangerup Denmark
Reference	Regulation 2017/306
Regulation Item (No & Item designation)	MED/1.2c POSITION-INDICATING LIGHTS FOR LIFE-SAVING APPLIANCES - FOR LIFEJACKETS
Product Type	Position-indicating lights for life saving appliances: (c) For Lifejackets
Product Description	Position Indicating flashing light for lifejackets – Type "MR3, WR3, WR3-1, WR3-2"
Specified Standard	IMO Resolution 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 29 January 2018 Expiry date 8 May 2022

Certificate No. MED 1750084/M2 Signed

Sheet No. 1 of 4 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.

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Document number MED 1750084/M2
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 29 January 2018	Quote this reference on all future communications SOUTSO/SFS/TA/LT/WP31529766
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1750084/M2

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.

APPROVAL DOCUMENTATION

Technical File – TF-DK-17, Revision 04.

Installation and Maintenance Instruction for Dan MR3 lifejacket light, MR3-Instruction Issue 04 (D0230)

Installation and Maintenance Instruction for Dan WR3 lifejacket light, WR3-Instruction Issue 05 (D0230)

Installation and Maintenance Instruction for Dan WR3-1 lifejacket light, WR3-1 Instruction Issue 04 (D0230)

Installation and Maintenance Instruction for Dan WR3-2 lifejacket light, WR3-2 Instruction Issue 03 (D0230)

TEST REPORTS

<u>Report No.:</u>	<u>Report Title or Test Description:</u>	<u>Date:</u>
12-2010	Evaluation and Test Report for Lifejacket Lights DANM3,MR3, W3 and WR3	23.12.2010
12-DK04	DAN W3-1, W3-2,WR3-2 and WR3-1 Automatic Lifejacket Light Evaluation and Test Report	01.05.2012
15256,15256-2	Mould growth test	22.12.2010
DANAK-19/11871	Type approval testing of M3	17.02.2012
01-2015	Evaluation and Test Report for Lifejacket Lights DANM3,MR3, W3 and WR3	22.07.2015
DELTA-L102765-4624	Determination of (x,y) Chromatic Colour Coordinates and determination of luminous light distribution from lifesaving device	18.09.2015
DANAK-1911204	Type approval testing of M2,M3 rint2, Rext and L6	22.12.2010
DANAK-19/1309511204	Type testing of M2 and M3	15.05.2013
75927471	Temperature cycling and vibration testing of M3 and W3 ER14250/ER14250M variant lifejacket light and battery	08.12.2014
DANAK-19/15427	Vibration test of Daniamant lights	02.07.2015
DELTA-L102765-4592	Determination of (x,y) Chromatic Colour Coordinates and determination of luminous light distribution from lifesaving device	03.07.2015

CONDITIONS OF CERTIFICATION

- 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 light is to be marked with the information required by the LSA Code Paragraph 1.2.2.9 and 1.2.3
- For compliance with SOLAS Regulation III/35 and III/36, fully detailed operations and maintenance manuals shall be supplied with each light



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4. 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
5. Lights which have reached their date of replacement shall be disposed of safely with due regard to their lithium batteries
6. 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
7. 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
8. 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**
9. 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
10. 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
11. 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



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PLACES OF PRODUCTION

Daniamant Limited
Unit 3, The Admiral Park
Portsmouth
Hants
PO3 5RQ
United Kingdom (UK)

Daniamant A/S
Industrivej 24C
3550 Slangerup
Denmark



Lijo Thomas
Senior Specialist
Statutory Fire & Safety
Southampton Technical Support Office, Marine & Offshore
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038