

Certificate Of Type Approval Issued On Behalf Of Transport of Canada

This is to certify that the product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with 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 A/S
Address	Industrivej 24 C, DK-3550 Slangerup, Denmark
Type	Position Indicating Lights
Description	Position-indicating flashing lights for lifejackets, Type "M2, W2, MR2, WR2"
Trade Name	M2, W2, MR2, WR2
Specified Standard	TP 14475E IMO Resolution MSC.81(70), Part 1, as amended

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 EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form 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.

71 Fenchurch Street, London, EC3M 4BS,
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Lijo Thomas

Senior Surveyor to Lloyd's Register EMEA
A member of the Lloyd's Register group

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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR2003143TC

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.

EXAMINED DOCUMENTATION

<u>Plan/Doc No.</u>	<u>Revision</u>	<u>Title or Description</u>
TF-DK-16	04	Technical File
Installation and Maintenance Instructions, Dan M2 lifejacket light, Issue 05 (D0575)		
Installation and Maintenance Instructions, Dan MR2 lifejacket light, Issue 05 (D0575)		
Installation and Maintenance Instructions, Dan W2 water activated lifejacket light, Issue 06 (D0575)		
Installation and Maintenance Instructions, Dan WR2 water activated lifejacket light, Issue 06 (D0575)		

TEST REPORTS

- MSC 980 based Evaluation and test report for DAN M2, MR2, W2 and WR2, report No 12-2010, dated 23.10.2010.
- Visual Inspection, salt mist cyclic corrosion, oil resistance and solar radiation test, report no: DANAK-19/13095, dated 15 May 2013.
- Light output test, report No:10-14, dated June 15, 2010.
- Fire test report, document no F10719, dated 19.04.1999.
- Force Institute, test report No:117524/m1445-527, dated 06-09-1999.

CONDITIONS OF CERTIFICATION

1. Operating mode
 - Dan M2 Manual
 - Dan MR2 Manual
 - Dan W2 Water activated
 - Dan WR2 Water activated
2. 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
3. Lights powered by batteries shall be marked permanently and legibly with the month and year of manufacture and its expiration
4. Each light is to be marked with the information required by the LSA Code Paragraph 1.2.2.9 and 1.2.3

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5. Lights which have reached their date of replacement shall be disposed of safely with due regard to their lithium batteries
6. 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
7. 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 Transport Canada Standard 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
8. The arrangements and installation of the lights on survival crafts are not part of this design appraisal or certificate and are to be to the satisfaction of the Surveyors attending on board
9. 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
10. 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
11. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure compliance with SOLAS III/5
12. 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
Airport Service Road
Hilsea
Portsmouth
Hampshire
PO3 5RQ
United Kingdom

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).