

## CERTIFICATE OF TYPE APPROVAL

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 contracting governments to issue the relevant certificates, licences, permits etc.

<b>Manufacturer</b>	Daniamant ApS
<b>Address</b>	Industrivej 24C DK-3550 Slangerup Denmark
<b>Product Type</b>	LIFEJACKET LIGHTS
<b>Product Description</b>	Position Indicating flashing light for lifejackets - Type: "ML3 and WL3"
<b>Specified Standards</b>	IMO Resolution MSC 81(70) Part 1 as amended by resolution MSC.226 (82), MSC.200(80) and MSC.323(89).

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 19 March 2012

Expiry date 18 March 2017

Certificate No. SAS S120014

Signed



Sheet No 1 of 3

Name

A. Prestigiacomio  
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, 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 Group'. The Lloyd's Register Group 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 Group 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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## DESIGN APPRAISAL DOCUMENT

Date 19 March 2012	Quote this reference on all future communications LDSO/F&S/AP
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### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S120014

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

Technical File –TF018, Rev 01.

Technical File –TF019, Rev 01

Installation and Maintenance Instruction for Dan ML3 lifejacket light Document no C1024 Issue 01.

Installation and Maintenance Instruction for Dan WL3 lifejacket light Document no C1024 Issue 01.

#### TEST REPORTS

<u>Report No:</u>	<u>Report Title or Test Description:</u>	<u>Date:</u>
12-2010	Prototype Test Report as witnessed by a surveyor acceptable to Lloyd's Register	23 <sup>rd</sup> December 2010
11-DK05	Prototype Test Report performed at DELTA	21 <sup>st</sup> December 2011
DANAK-19/11690	Prototype Test Report performed at DELTA	2 <sup>nd</sup> December 2011

#### CONDITIONS OF CERTIFICATION

1. For compliance with SOLAS Regulation III/35 and III/36 fully detailed operations and maintenance manuals shall be supplied with each light.
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. The date of expiry shall not exceed 50% of the service life of the battery as established by the battery manufacturer.
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. 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. 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.
6. 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.
7. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure compliance with SOLAS Regulation III/5.
8. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81(70), Part 2 and each item, batch, or lot be delivered with an LR Certificate of SOLAS Production Testing issued by the attending LR Surveyors following their witness of the tests. 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.



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**DESIGN APPRAISAL DOCUMENT**

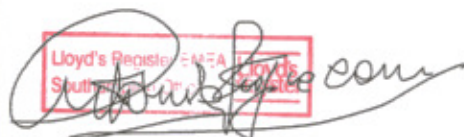
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9. Should a change of Place of Production from that stated below be required i.e. where the stages of manufacture/assembly/testing of this product take place, the new Place of Production is to be advised to us prior to the change taking place. This Certificate will require to be updated for Approval to be maintained.

**PLACES OF PRODUCTION**

Daniamant Limited Unit 3, The Admiral Park Airport Service Road Hilsea, Portsmouth Hampshire, PO3 5RQ United Kingdom (UK)	and	Daniamant ApS Industrivej 24C 3550 Slangerup Denmark
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 Lloyd's Register EMEA  
 Southampton

A. Prestigiacomo  
 Senior Surveyor  
 Fire & Safety  
 London Design Support Offices  
 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).*