

## 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 3550 Slangerup Denmark
<b>Product Type</b>	<b>POSITION-INDICATING LIGHT FOR LIFE SAVING APPLIANCES</b>
<b>Product Description</b>	Survival craft and rescue boat external flashing light - Type: "RESCUE-DAN R. EXT"
<b>Specified Standards</b>	SOLAS 74, as amended Regulations III/4, 34 and X/3. IMO Resolution MSC.48(66), LSA Code, Regulations I/1.2, IV/4.1.3.3 and 4.4.7.10. IMO Resolution MSC.97(73), 2000 HSC Code, Regulation 8.1. IMO Resolution MSC.81(70) Part 1 Section10.

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 21 January 2009

Expiry date 20 January 2014

Certificate No. SAS S090022

Signed



Sheet No 1 of 3

Name

P. Galbraith  
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.\*

**DESIGN APPRAISAL DOCUMENT**

Date 21 January 2009	Quote this reference on all future communications LDSS/PAS/LSA/PG
-------------------------	----------------------------------------------------------------------

**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S090022**

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>Dwg No.</u>	<u>Rev.</u>	<u>Date</u>	<u>Drawing Title</u>
Dcelle00		07.01.2004	Emergency Rescue Light RESCUE-DAN R.EXT, samlingstegning
Dcelle00		07.01.2004	Emergency Rescue Light RESCUE-DAN R.EXT, oversigtstegning
Dcelle00		07.01.2004	Emergency Rescue Light RESCUE-DAN R.EXT, stykliste
		Jan. 2004	Operation, Maintenance & Service Instructions
StortLa 01	1	07.01.2008	Bund
5121	2	29.01.2008	Spring Contact

**TEST REPORTS**

Force Institute Test Report No. m1445-221620.b rev 1 dated 30<sup>th</sup> September 2004  
 Force Institute, Test Report No. 117524/m1445-527 dated 9<sup>th</sup> June 1999  
 Force Technology, Test Report No. m1460-175564 dated 8<sup>th</sup> August 2002  
 Delta Danish Electronics Light and Acoustics, Test Report No. DELTA-L100223-1838 dated 18<sup>th</sup> July 2002,  
 Test Report No. M101852-2 dated 8<sup>th</sup> February 2008 and DANAK-1910066 dated 18<sup>th</sup> February 2008  
 Delta Light and Optics, Test Report No. DANAK-KAP724037-1304 dated 4<sup>th</sup> May 1999  
 Delta Electronics Testing, Test Report No. DANAK-194537 dated 20.04.1999 ~ 26.05.1999  
 Danish Institute of Fire Technology, Test Report No. F10719 dated 19<sup>th</sup> April 1999

**CONDITIONS OF CERTIFICATION**

- Detailed operation, installation and necessary maintenance instructions are to be provided with each light.
- Each light is to be marked in accordance with the LSA Code Regulations I/1.2.2.9 and 1.2.3, the serial number and identification of the manufacturer.
- 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.
- 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.
- Production items are to be manufactured in accordance with a quality control procedure and records kept as required by MSC.81 (70) Part 2, Paragraph 1.2. Production tests are to be conducted to ensure compliance with SOLAS Chapter iii Regulation 5. 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.

### DESIGN APPRAISAL DOCUMENT

Date 21 January 2009	Quote this reference on all future communications LDSS/PAS/LSA/PG
-------------------------	----------------------------------------------------------------------

#### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S090022

6. Should a change of Place of Production from that stated below be required, i.e. where the final stages of manufacture/assembly/testing of this product takes 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.

#### PLACE OF PRODUCTION

Daniamant ApS  
Industrivej 24C  
3550 Slangerup  
Denmark

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



P. Galbraith  
Senior Surveyor  
Product Approval Services  
London Design Support Services  
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).*