DNV·GL

Certificate No:
MEDB000061A

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Position indicating lights for life-saving appliances: (a) for survival craft and rescue boats

with type designation(s)
RL5 Viking

Issued to
Daniamant Ltd
Portsmouth, Hampshire, United Kingdom

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397,**
item No. MED/1.2a. SOLAS 74 as amended, Regulation III/4, III/34 & X/3, LSA Code I & IV, 1994 HSC Code 8, 2000 HSC Code 8

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-10-10**.

Issued at **Hamburg** on **2019-10-11**

DNV GL local station:
Denmark CMC

Approval Engineer:
Nicolay Horn

Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
Head of Notified Body

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), as allowed by 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.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

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Job Id: **344.1-009931-1**
Certificate No: **MEDB000061A**

Product description
Manually controlled flashing position indication lights for survival craft – Type RL5 Viking

Application/Limitation
Lights powered by batteries shall be marked with means of determining their age or the date by which they are to be replaced.

For compliance with SOLAS Regulation III/35 and III/36, fully detailed operations and maintenance manuals shall be supplied with each light.

Type Examination documentation
Technical file doc. No. TF011, revision 05
Installation and Maintenance Instruction RL5 Liferaft Lights, 48-135 Issue 05 (C6495)

Test report No	Title	Date
010-06	RL5 Evaluation and test report	2006-05-15
08-10	RL5 tested to meet requirements of MSC226(82)	2008-03-26
11-01	RL5 with Modified 8 LED External Light Assembly	2011-03-16
OC-0599-01	Optical Testing of Survivor Locator Lights Daniamant Type RL5 (Report to support 75934744)	2016-06-11
OC-0576-01	Optical Testing of Survivor Locator Lights Daniamant Type RL5 for use of alternative LED	2016-02-18
OC-0654	Optical Testing of Survivor Locator Lights Daniamant Type RL5 (Report to support 75936166)	2016-11-04
15256-2	Moulded Grow Test	2012-02-15
75934744 THC 01 Issue 1	Thermal cycling and Chromaticity test	2016-04-28
75932844 THC 02	Thermal cycling test, flash rate test and luminous intensity test	2016-04-28
75917538 Issue 1	Environmental Testing to BS EN 60945:2002 (as required by amendment to MSC 81(70) – MSC323(89)	2012-04
75936166	Environmental Testing of RL5 lights for use of alternative LED	2016-11-24
Danak – 19/13095	Type Approval testing for the acceptance of laser marking of lights, Visual Inspection, Corrotion Oil resistance and Solasr Radiation of M2 and M3 lights	2013-05-15

Tests carried out
-IMO Resolution MSC.81(70), part 1, as amended
-IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008)

Marking of product
To be marked with information requested by the LSA Code Paragraph 1.2.2.9 and 1.2.3
- Manufacturer name
- Type identification
- Serial or Lot number
- Date of expiry
- USCG Approval Number: USCG 161.101/EC0098/ MEDB000061A

END OF CERTIFICATE