DNV·GL

Certificate No:
MEDB0000617

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)
RB2-RL4, RB2-RL4 (RFD) and RB2-RL4 (DSB)

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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: **344.1-009928-1**
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Product description
Flashing external lights for liferafts – Type RB2-RL4, RB2-RL4 (RFD) and RB2-RL4 (DSB)

Application/Limitation
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. TF010, revision 03
Installation and Maintenance Instruction, Doc. No 58-7015-PAT Issue 12 (C6495)

Test report No	Title	Date
009-001	Vibration, oil resistanceand rain test	2001-11-06
TM-2-1998	Temperature cycling test and Light output test	1998-06-04
75917538, Report 01 Issue 1	Environmental testing of Life raft Lights	2012-04-01
75925967, Report 01 Issue 1	Temperature cycling test, Chromatic test, Vibration test and rain and water tightness test	2014-06
TM-17-99	Vibration test, Chromatic test, Mould Growth Test, Rain and water tightness test, Switch arrangement test, Solar radiatioin test, Oil resistant test and Fire test	1999-06-22
TM-47-90	Temperature cycling test, Performance test, Light output test, Two meter drop test, Vibration test and Water tightnes test	1991-01-07
Env/18262	Moulded growth test	2002-09-11

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/ MEDB0000617

END OF CERTIFICATE