

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: (c) for lifejackets

with type designation(s)
M2, MR2, W2 and WR2

Issued to
Daniamant A/S
Slangerup, Denmark

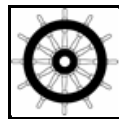
is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397,**
item No. MED/1.2c. SOLAS 74 as amended, Regulation III/4, III/7, III/22, III/26, III/32, III/34 & X/3, LSA Code, 2000 HSC Code 8

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



for **DNV GL SE**

Approval Engineer:
Nicolay Horn

Notified Body
No.: **0098**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Job Id: **344.1-009906-1**
Certificate No: **MEDB000060G**

Product description

Position-indication flashing lights for life jackets – Type M2, MR2, W2 and WR2

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

Daniamant Technical file TF-DK-10 (M2), rev.3

Daniamant Technical file TF-DK-11 (MR2), rev.3

Daniamant Technical file TF-DK-12 (W2), rev.3

Daniamant Technical file TF-DK-13 (WR2), rev.3

Installation and Maintenance Instruction for Dan M2 lifejacket light, M2 Instruction Issue 05 (D0575)

Installation and Maintenance Instruction for Dan MR2 lifejacket light, MR2 Instruction Issue 05 (D0575)

Installation and Maintenance Instruction for Dan W2 lifejacket light, W2 Instruction Issue 06 (D0575)

Installation and Maintenance Instruction for Dan WR2 lifejacket light, WR2 Instruction Issue 06 (D0575)

Test reports:

Report No	Title	Date
4-2010	Evaluation and Test Report for Lifejackets lights DAN M2, MR2, W2 and WR2	2010-12-23
12-2010	Evaluation and Test Report for Lifejackets lights DAN M2, MR2, W2 and WR2	2010-12-23
10-14	Re-Test of M2 Lights for Light Output	2010-06-15
F10719	Fire test, Contracted by Force Institute	1999-04-19
117524/ m1445-527	Oil resistance test, Rain and Water Tightness test, carried out at Force Institute	1999-06-09
DANAK-19/13095	Type testing of M2, M3	2013-05-15

Tests carried out

-IMO Resolution MSC.81(70), part 1, as amended by Resolution MSC.200(80), Resolution MSC 226(82) and Resolution MSC.323(89)

-IEC60945:2002 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 161.112/EC0098/ MEDB000060G

END OF CERTIFICATE