

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000060N
Revision No:
1

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)
M3, W3, W3-1, W3-2 and W3 Polar

Issued to
Daniamant A/S
Slangerup, Denmark

is found to comply with the requirements in the following Regulations/Standards:
Regulation (EU) 2022/1157,
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

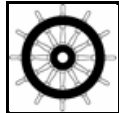
Further details of the equipment and conditions for certification are given overleaf.

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

Issued at **Hamburg** on **2023-06-29**

DNV local unit:
Denmark CMC

Approval Engineer:
Marcin Tobiasz



Notified Body
No.: **0098**

for **DNV GL SE**

Christine Mydlak-Roeder
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) 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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Position-indication lights for life jackets – Type M3, W3, W3-1, W3-2 and W3 Polar

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 – TF-DK-16, rev 04

Installation and Maintenance Instruction for Dan M3 lifejacket light, M3 Instruction Issue 07 (D0685)

Installation and Maintenance Instruction for Dan W3 lifejacket light, W3 Instruction Issue 10

Installation and Maintenance Instruction for Dan W3-1 lifejacket light, W3-1 Instruction Issue 07 (D0685)

Installation and Maintenance Instruction for Dan W3-2 lifejacket light, W3-2 Instruction Issue 06 (D0685)

Test reports:

Report No	Title	Date
12-2010	Evaluation and Test Report for Lifejackets lights DAN M3, MR3, W3 and WR3	2010-12-23
12-DK04	DAN W3-1, W3-2, WR3-2 and WR3-1 Automatic Lifjacket Light Evaluation and Test Report	2012-05-01
15256, 15256-2	Mould grow test	2010-12-22
DANAK-19/11871	Type testing of M3	2012-02-17
DANAK-1911204	Type testing of M2, M3 RINT2, REXT and L6	2010-12-22
DANAK-19/1309511204	Type testing of M2, M3	2013-05-15
DANAK-19/15427	Vibration test of Daniamant lights	2015-07-02
DELTA-L102765-4624	Determination of (x,y) Chromatic Colour Coordinates and determination of luminous lights distribution from life saving device	2015-09-18
DELTA-L102765-4592	Determination of (x,y) Chromatic Colour Coordinates and determination of luminous lights distribution from life saving device	2015-07-03
75927471	Temperature cycling and vibration testing of M3 and W3	2014-12-08
01-2015	Evaluation and Test Report	2015-07-22
-	Lifejacket / immersion suit lights evaluation and test report Rev. 2.0 (X3- ver. 15)	2021-11-03
M33698	Light Measurement Report (X3 – ver. 15)	2021-10-01
122-32421-2	Force influence of on/off function for lifejackets and liferaft lights	2023-06-28

Tests carried out

- IMO Resolution MSC.81(70), part 1, as amended
- IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008)
- ISO 24408: 2005

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

END OF CERTIFICATE