

TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB000060K
Revision No:
0

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

This is to certify:

That the Position indicating lights for life-saving appliances: (c) for lifejackets

with type designation(s)
M4-A and W4-A, version 1 and 2

Issued to
Daniamant A/S
Slangerup, Denmark

is found to comply with the requirements in the following Regulations/Standards:
Regulation **MSN 1874 Amendment 6,**
item No. UK/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 **London** on **2022-12-15**

DNV local unit:
Denmark CMC

Approval Engineer:
Marcin Tobiasz



Approved Body No.: **0097**

for **DNV UK Ltd.**

Christine Mydlak-Röder
MER Service Responsible



UK Approved Body Authorised
by the MCA

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-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. The product liability rests with the manufacturer or his representative in accordance with the Merchant Shipping (Marine Equipment) Regulations 2016.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV UK Ltd. of any changes to the approved equipment. 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. This certificate remains valid unless suspended, withdrawn, re-called, or cancelled.

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 M4-A version 1, W4-A version 1, M4-A version 2, W4-A version 2

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-20, M4-A and W4-A Lifejackets Light – Revision 01
 Installation and Maintenance Instruction for Dan M4-A and W4-A lifejacket light, Issue 04 (D0647)

Test reports:

Report No	Title	Date
TPN 20/142	Daniamant report “W4 light cell performance test results”	2020-10-21
M33172	DTU light measuring report	2020-10-22
20 DK01	Incremental difference of the already approved version of the M4/W4A light	2020-11-11
4-2015	Evaluation and Test Report for Lifejackets lights M4-A and W4-A	2015-04-19
Appendix to 4-2015	Evaluation and Test Report for Lifejackets lights M4-A and W4-A	
DELTA-L102798-4719	Determination of (x,y) colour coordinates and determination of luminous light distribution emitted from lifesaving device	2016-03-21

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)
- 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
- Mark of Conformity

END OF CERTIFICATE