

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Position-indicating light

with type designation(s)
M4-A and W4-A

Issued to

Daniamant ApS
Slangerup, Denmark

is found to comply with
DNV GL rules for classification – Ships and offshore units

Application :

This certificate is recognized by Transport Canada.

Vibration class A (equiv 60945)
Enclosure class IP67/68

This Certificate is valid until **2021-03-31**.

Issued at **Høvik** on **2016-04-01**

DNV GL local station: **Copenhagen**

Approval Engineer: **Marta Alonso Pontes**

for **DNV GL**

Marit Laumann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Product description

Daniamant lifejacket lights M4-A (manually activated) and W4-A (automatically activated)

Technical data:

Weight:	42g
Battery:	Alkaline – Type AAA 2x1,5V
Lamp:	White flashing LED
Flashing rate:	50 to 70 flashes per minute
Storage temperature:	-30 °C to +65 °C -1 °C to +30 °C
Enclosure class:	IP67/IP68

Dimensions:

Height:	60,9 mm
Width:	29,9 mm
Depth:	17,2 mm

Application/Limitation

Instructions from maker given in the instruction manual to be followed.

This approval doesn't include the attachment to the lifejacket. It is responsibility of the lifejacket manufacturer to ensure that the light is attached securely and in the correct position.

Type Approval documentation

Docs listed in app. Letters with ref:

MCANO381/PONT/262.1-021579-J-17 dated 2016-02-08

MCANO381/PONT/262.1-021579-J-22 dated 2016-02-17

Test report DELTA-L102798-4719 dated 2016-03-21

Videos for drop test and switch arrangement test (262.1-021579-1 J 21)

Tests carried out

Tested in accordance with the requirements of TP14475/IMO Resolution MSC.81 (70), as amended.

Marking of product

- Intended use (Lifejacket light)
- Serial number and manufacturing date
- Manufacturer identification
- Easily understandable symbols for on/off switching
- Expiry date*
- TC XXXX (Transport Canada approval)
- Marking on the battery: BAT MM/YY (expiry date)

* The expiring date shall be marked in accordance with the LSA Code, item 1.2.3 as amended by IMO Res. MSC 48(66).

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.



Job Id: **262.1-021579-1**
Certificate No: **TAE0000103**

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Assessment to be performed at least every second year.

END OF CERTIFICATE