



BROCHURE

**NEW**

## Lifejacket Lights Alkaline

Daniamant design and manufacture all of our products in line with the relevant worldwide approvals, technical specifications, current legislation and International directives.

Our mission is to achieve World class performance through partnerships with our suppliers, customers and employees, providing products and services that enhance the safety and security of our customers.

**Daniamant products cover 12 key areas:**

- Lifejacket Lights
  - Liferaft Lights
  - Lifebuoy Lights
- Intrinsically Safe Lights
  - Special Lights
    - LED Flares
- Forward Looking Sonars (FLS)
  - Bridge Navigational Watch Alarm System (BNWAS)
    - Salinometers
    - Oil Level Alarm
  - Electronic Incliner
- Agency for a range of world-renowned safety product brands (supplied to the Danish market)

### Introduction

Daniamant is proud to present a new range of lifejacket lights and a new concept of lifejacket lights.

Daniamant continue to offer lithium based technology survivor location lights as its preferred choice of battery technology. This is due to lithium's superior power and ability to work at extreme temperatures, whilst having a longer life once activated e.g. the M3/W3 range currently lasts for almost 90 hours at the required 0.75cd light output.

However as disposal of lithium becomes more of an issue and transportation costs increase Daniamant need to offer its Customers a choice of battery technologies.

Our new Alkaline range meets all the testing requirements of SOLAS and the Marine Equipment Directive but using alkaline technology this new range will still last for 60 hours - way in excess of the required 8 hours.

Our new range is of course 100% approved but gives our Customers a choice of two quality lights. You can now make a choice depending on your priorities in transport versus, disposal versus performance.

### One light fits all!

In addition to this Daniamant present a new lifejacket light concept. Previously you could buy a light for recessed jackets or for inflatable jackets but this was two different lights. Now Daniamant have designed a light that can be used on any jacket, you just choose the clip/receptacle that you want to match your jacket requirement. This helps our Customers stock only one light, now isn't that a good idea!

When fitted to the 50mm belt clip, the light can attach to almost any lifejacket. When fitted to the inflator tube clip, the light can attach to almost any inflatable jacket. When fitted to the recessed receptacle, the light maintains Daniamant's unique ultra-low profile that was specifically designed for lifejackets used on vessels with evacuation chute systems for mass evacuation of passengers.

### Activation

All Daniamant Lifejacket Lights are designed to suit the applications faced by our Customers. However we offer two alternative methods of activation.

### M4-A

This new, low profile light is a single compact flashing unit. It is manually activated by pressing the switch on the front of the light. The light is emitted through an ultra low profile dome, making the light less susceptible to damage during evacuation.

## W4-A

This is the automatic version of the M4-A. The light activates automatically when immersed in water and will remain lit once water activated to allow for rescue scenarios involving an unconscious survivor. The light can be turned off manually if required by pressing the switch.

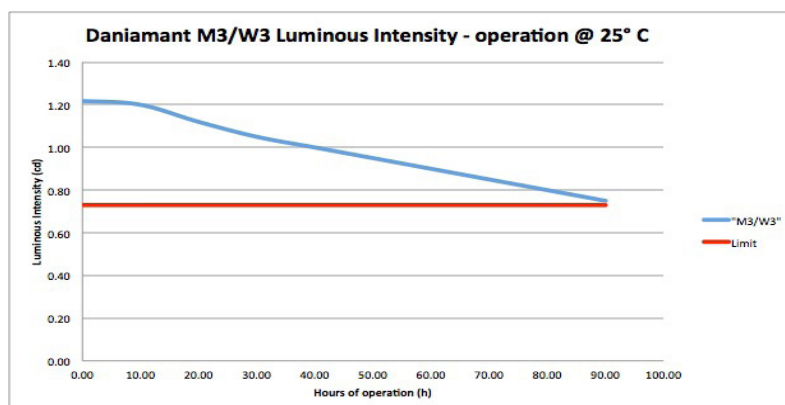
## Maintenance

The DAN M4-A and W4-A units are maintenance free, but some checks should be made annually, please see our user instructions for more details.

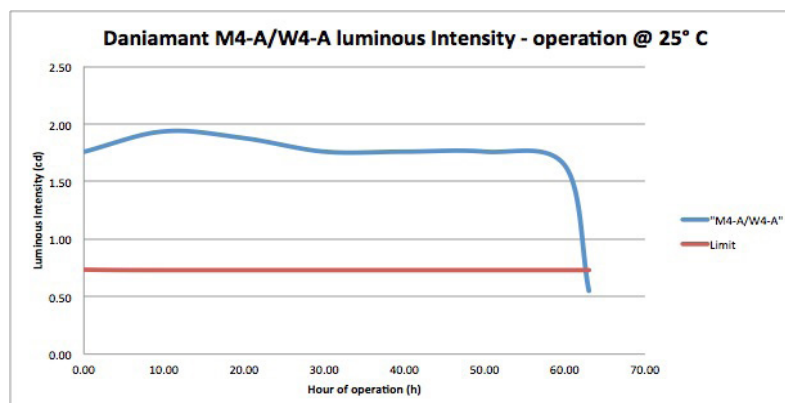
Daniamant supply a test probe for testing our water activated lights which is provided with each shipment and available separately if required (Part No. 1990).

## Performance Comparison

### M3 / W3 - Lithium



### M4-A / W4-A - Alkaline





## TECHNICAL DATA SHEET

# Lifejacket Lights M4-A / W4-A

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### Daniamant products cover 11 key areas:

- Lifejacket Lights
- Liferaft Lights
- Lifebuoy Lights
- Intrinsically Safe Lights
  - Special Lights
  - LED Flares
- Bridge Navigational Watch Alarm System (BNWAS)
  - Salinometers
  - Oil Level Alarm
  - Electronic Inclinator
- Agency for a range of world-renowned safety product brands (supplied to the Danish market)

MODEL	M4-A	W4-A
Part number	1140	1360
Plastic Colour	Orange	
Light - Output	Minimum 0.75 cd	
Light - Duration	Minimum 8 hours	
Light - Type	White Flashing LED	
Material	ABS & Polycarb	
Storage Temperature	-30 C to +65 C	
Operating Temperature	-1 C to +30 C	
Storage Life	5 years	
Weight - Nominal	42 g	42 g
Battery Type	Alkaline	
Activation	Manual	Water/Manual
Approvals	SOLAS/MED/USCG	
- Classification Societies		
Approvals - Country	See our website for full list of Country approvals	

## Accessories

- Recessed Clip:** Part number: 1971
- Belt Clip:** Part number: 1961
- Wide Clip:** Part number: 1972
- Tube Clip:** Part number: 1962

## Packing Specification

To minimize shipping costs, all Lifejacket Lights are packed and supplied in boxes of 250 and 500 off.

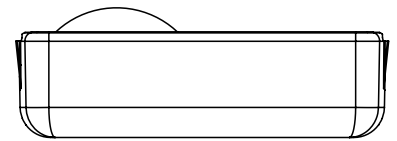
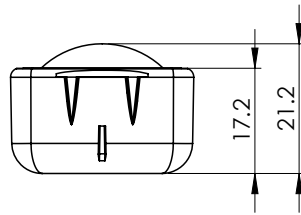
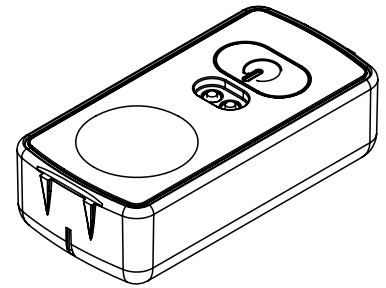
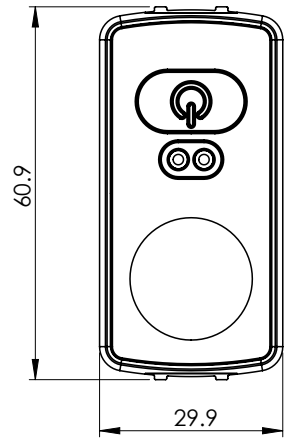
### The dimensions are:

- Box of 250 off : 40 x 40 x 24 cm
- Box of 500 off : 78 x 40 x 24 cm

### Approximate packed weights are:

- Box of 250 off : 14 kg
- Box of 500 off : 23 kg

Outline



## TEST CERTIFICATE

CLIENT: TÜV SÜD Product Service      CERTIFICATE NUMBER      14109/02 Issue 01

CUSTOMER ORDER NUMBER      10011893

TÜV REFERENCE      75932441

PAGE 1 OF 2

DATE OF RECEIPT      20 November 2015

EQUIPMENT SUPPLIER      Daniamant Survival Lights

TEST ITEM(S)

TSR	Identity	Description	Qty	PTL ID
025	M3	Lifejacket Light	1	17627
026	W3	Lifejacket Light	1	17628
027	MR3	Lifejacket Light	1	17629
028	WR3	Lifejacket Light	1	17630
029	ML3	Lifejacket Light	1	17631
030	WL3	Lifejacket Light	1	17632
031	M4-A	Lifejacket Light	1	17633
032	W4-A	Lifejacket Light	1	17634

TEST SPECIFICATION / ISSUE      BS EN 60529:1989 +A1:1999 +A2:2013 IP6X Category 1

DATE OF TEST      25 November 2015

TEST(S) APPLIED

Protection Against Solid Foreign Objects, Dust-Tight

Initially the units were examined for apertures and openings allowing penetration of a 1mm diameter probe applied with a force of 1N,

Prior to testing a functional assessment was performed by turning on each of the units to ensure proper operation. A vacuum of 19.9 mbar was then applied to each of the units individually and the airflow was below measurable, therefore an 8 hour test was required. During testing a vacuum was applied to all of the units. The test conditions were as follows:

Dust Grade:      BS EN 60529 Talc Test Dust

Concentration:      2 kg/m<sup>3</sup>

Duration:      8 hrs

Temperature/Humidity:      19.2 °C / 58% rh

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### RESULT(S) OF TEST

#### IP6X


There were no apertures permitting entry with a 1mm diameter probe when using a force of 1N.

On completion of the dust test excess dust was removed by light brushing, no conspicuous damage was noticed on the exterior of the unit. A functional assessment was performed by turning on each of the units to ensure proper operation.

The units were opened to allow inspection, there was no visible dust ingress.

### COMPLIANCE

The Lifejacket Lights conform to the standard required by BS EN 60529:1989 +A1:1999 +A2:2013 IP6X Category 1.

Approved by   
G J Spicer, MEng  
Managing Director

Date: 27 November 2015

COMMERCIAL-IN-CONFIDENCE

# STATEMENT OF TEST

CLIENT Daniamant Limited

DOCUMENT

75932441 THC 01 Issue 1

CLIENT'S ORDER NUMBER

PC0001564, dated 27.10.2015

INCOMING RELEASE NOTE

Not Released

DATE OF RECEIPT

28 October 2015

EQUIPMENT UNDER TEST (EUT)

Survivor Location Lights, as stated below (x10 units tested)

MODEL/PART NUMBERS(S)

	Description	Model	TSR No *
1	External Liferaft Light	RL5 (external)	001
2	Internal Liferaft Light	RL5 (internal)	004
3	Lifejacket Light	M3	007
4	Lifejacket Light	W3	009
5	Lifejacket Light	MR3	011
6	Lifejacket Light	WR3	013
7	Lifejacket Light	ML3	015
8	Lifejacket Light	WL3	017
9	Lifejacket Light	M4-A	019
10	Lifejacket Light	W4-A	021

\* Test Sample Registration Number

TEST SPECIFICATION / ISSUE

EN 60529:1992. Table III, Table VIII and clause 14.2.7.

DEVIATIONS FROM THE STANDARD

None

DATE OF TEST

2 November 2015

TEST(S) DESCRIPTION

Protection Against Ingress by Immersion in Water (IPX7)

The following test was required by the specification:

1. Immediately prior to the test examine each EUT. Manually switch each EUT to ON and OFF.
2. Immerse each EUT in water so that the lowest point of the EUT is 1000 mm below the surface of the water, and for a duration of 30 mins.
3. On completion of the test re-examine the units. Note any conspicuous ingress of water. Manually switch each EUT to ON and OFF.

RESULT(S) OF TEST

The test requirements were satisfied. No water ingress, other damage or detrimental effects were observed or reported during or on completion of the test. When switched ON after the test all lights operated and/or flashed satisfactorily as required and as compared to the operation prior to the test. Items 1 and 2 are interdependent units and were interconnected during the test.

This certificate relates only to the actual item/items tested.

Approved by



G M Stephens  
Authorised Signatory



Date 25 November 2015



COMMERCIAL-IN-CONFIDENCE

# STATEMENT OF TEST

CLIENT Daniamant Limited

DOCUMENT

75932441 THC 02 Issue 1

CLIENT'S ORDER NUMBER

PC0001564, dated 27.10.2015

INCOMING RELEASE NOTE

Not Released

DATE OF RECEIPT

28 October 2015

EQUIPMENT UNDER TEST (EUT)

Survivor Location Lights, as stated below (x10 units tested)

MODEL/PART NUMBERS(S)

	Description	Model	TSR No *
1	External Liferaft Light	RL5 (external)	002
2	Internal Liferaft Light	RL5 (internal)	005
3	Lifejacket Light	M3	008
4	Lifejacket Light	W3	010
5	Lifejacket Light	MR3	012
6	Lifejacket Light	WR3	014
7	Lifejacket Light	ML3	016
8	Lifejacket Light	WL3	018
9	Lifejacket Light	M4-A	020
10	Lifejacket Light	W4-A	022
* Test Sample Registration Number			

TEST SPECIFICATION / ISSUE

EN 60529:1992. Table III, Table VIII and clause 14.2.8.

DEVIATIONS FROM THE STANDARD

None

DATE OF TEST

2 November 2015

TEST(S) DESCRIPTION

Protection Against Ingress by Immersion in Water (IPX8)

The following test was required by the specification:

1. Immediately prior to the test examine each EUT. Manually switch each EUT to ON and OFF.
2. Immerse each EUT in water and within a pressure vessel. Pressurise the water surface to an equivalent depth of 5 metre, and for a duration of 30 mins.
3. On completion of the test re-examine the units. Note any conspicuous ingress of water. Manually switch each EUT to ON and OFF.

RESULT(S) OF TEST

The test requirements were satisfied. The highest point of the EUT was 10 mm below the water surface and the air pressure applied was 0.49 bar. No water ingress, other damage or detrimental effects were observed or reported during or on completion of the test. When switched ON after the test all lights operated and/or flashed satisfactorily as required and as compared to the operation prior to the test. Items 1 and 2 are interdependent units and were interconnected during the test. All the EUT were preconditioned prior to the test so that their temperature was within 5°C of the water temperature.

This certificate relates only to the actual item/items tested.

Approved by



G M Stephens  
Authorised Signatory



Date 25 November 2015