

TEST CERTIFICATE

CLIENT: TÜV SÜD
Octagon House
Concorde Way
Fareham
Hampshire
PO15 5RL

CERTIFICATE NUMBER 25145/01 Issue 01

CUSTOMER ORDER NUMBER 2600023674

TÜV SÜD REFERENCE 75958630

PAGE 1 of 2

DATE OF RECEIPT

7 September 2023

EQUIPMENT SUPPLIER

Daniamant Ltd

TEST ITEM(S)

Description	Model N°	Serial N°	PTL ID
L90 Lifebuoy Light	L90	16	42301

TEST SPECIFICATION / ISSUE

BS EN 60529:1992 +A2:2013 IP6X Category 1

DATES OF TEST

12 September 2023

TEST(S) APPLIED

IP4X Probe

BS EN 60529:1992 +A2:2013 Clause 5 states "An enclosure shall only be designated with a stated degree of protection indicated by the first characteristic numeral if it also complies with all lower degrees of protection." Therefore, IP6X Cat 1 cannot be achieved without first meeting the requirements of IP4X.

Initially the test item was examined for apertures and openings allowing penetration of a 1mm diameter probe applied with a force of 1N.

TEST(S) APPLIED

IP6X Cat 1 - Protection Against Solid Foreign Objects, Dust-Tight

A vacuum not exceeding 20 mbar was applied to the test item, the air flow was below measurable therefore, a test duration of 8 hours was required.

The test conditions were as follows:

Dust Grade: BS EN 60529 Talc Test Dust

Concentration: 2 kg/m³

Duration: 8 hrs

Temperature/Humidity: 18.2°C / 57% rh

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PAGE 2 of 2

RESULT(S) OF TEST

IP4X

There were no opening or apertures which allowed the 1mm diameter probe to enter the enclosure when using a force of 1N.

IP6X

Prior to the internal inspection, excess dust was removed by brushing only, no vacuum or compressed air was used.

The enclosure was removed from the chamber, there were no visible detrimental effects on the exterior of the unit. The unit was opened to allow an internal inspection; there was no visible dust ingress into the enclosure.

A functional assessment was performed, which was satisfactory.

COMPLIANCE

The L90 Lifebuoy Light conformed to the standard required by BS EN 60529:1992 + A2:2013 IP6X Category 1.

Approved by
Greg Spicer MEng
Managing Director
Date: 06 October 2023