

TEST CERTIFICATE

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

CERTIFICATE NUMBER 25237/02 Issue 01

CUSTOMER ORDER NUMBER 2600019433

TÜV SÜD REFERENCE 75958509

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DATE OF RECEIPT

25 September 2023

EQUIPMENT SUPPLIER

Daniamant Ltd, Unit 3, The Admirals Park, Airport Service Road,
Portsmouth. PO3 5RQ

TEST ITEM(S)

| Description | Model N° | Serial N° | PTL ID |
|---------------------------|--------------|-----------|--------|
| Position Indicating Light | Not Supplied | Sample 3 | 42516 |

TEST SPECIFICATION / ISSUE

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

DATES OF TEST

27 September 2023 (IP4X)

29 September 2023 (IP6X)

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 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 - 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:

Enclosure Category : 1
Dust Grade: BS EN 60529 Talc Test Dust
Concentration: 2 kg/m³
Duration: 8 hrs
Temperature/Humidity: 17.4°C / 53% rh

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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.

A functional assessment was performed, which was satisfactory (Functional assessments are not UKAS accredited).

COMPLIANCE

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

Approved by
Greg Spicer MEng
Managing Director
Date: 05 February 2024