

### TEST CERTIFICATE

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

**CERTIFICATE NUMBER** 26430/01 Issue 02

**CUSTOMER ORDER NUMBER** 2600026213

**TÜV SÜD REFERENCE** 75960403

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### CHANGELOG

Issue	Section and description of change	Date	By
01	First issue.	26/06/24	Greg Spicer
02	Updated model numbers.	26/06/24	Greg Spicer

**DATE OF RECEIPT** 14 May 2024

**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	RL8 External	Sample 28	46982
Indicating Light Power pack	RL8 Internal	Sample 28	46983

**TEST SPECIFICATION / ISSUE** BS EN 60529:1992 +A2:2013 IP6X Category 1

**DATES OF TEST** 16 May 2024 (IP4X)  
16 May 2024 (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

Prior to the test a functional assessment was conducted following instructions supplied by the customer, the unit operated correctly. Results of functional assessment are not UKAS accredited.

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/m<sup>3</sup>  
Duration: 8 hrs  
Temperature/Humidity: 19.4°C / 56% 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. A functional assessment on the EUT showed that it continued to operate as expected. Results of functional assessments are not UKAS accredited

The unit was opened to allow an internal inspection; there was no visible dust ingress.

**COMPLIANCE**

The Indicating Light Power pack and 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: 26 June 2024**