



Product Service

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TEST HOUSE CERTIFICATE

CLIENT: Brigade Engineering PLC
Brigade House
The Mills, Station Road
South Darenth
Kent, DA4 9BD

CERTIFICATE NUMBER SD614318/001 Issue 1

PROJECT NUMBER SD614318/PPK

CLIENT'S ORDER NUMBER S0037

INCOMING RELEASE NOTE

Not released

DATE OF RECEIPT

1 June 2005

TEST ITEM(S)

1. Ball Style Camera, identification S/N: GB001
2. BE-800C, identification S/N: 050300580
3. BE-100C, identification S/N: 0407C0388

NUMBER OF ITEMS TESTED

Three

TEST SPECIFICATION / ISSUE

BS EN 60529:1992

DATE OF TEST

5 July 2005

TEST(S) APPLIED

1. Protection against access to hazardous parts to IP6X
2. Protection against solid foreign objects to IP6X

See page 2 for details

RESULT(S) OF TEST

1. Protection against access to hazardous parts to IP6X

There was no location on the test items at which the access probe could be inserted.

2. Protection against solid foreign objects to IP6X

Prior to the dust test the units was connected up to a vacuum pump via a flow meter, with a manometer connected to measure depression. At the required depression of 20mbar there was no measurable leak rate. The units were subjected therefore to full 8 hours swirling dust conditions.

Following exposure the unit was removed from the chamber and accumulations of surface dust brushed off. The EUT's were dismantled for an internal inspection. There was no visible evidence of dust ingress.

Approved by 

Date ... 12th August 2005

R L Harris
Authorised Signatory



TESTS APPLIED

1. Protection against access to hazardous parts to IP6X

The unit was tested using a probe to comply with the following conditions:

Probe:	Rigid rod to EN 60529:1991, Table VI
Probe diameter:	1.0 mm, +0.05 mm / -0.0 mm
Probe length:	100 mm \pm 0.2 mm
Test force:	1 N \pm 10%

2. Protection against solid foreign objects to IP6X

The unit was subjected to dust under the following conditions:

Dust:	Talcum powder (75 micron)
Concentration:	2 kg/m ³ of chamber volume
Depression:	2 kPa (20 mbar)
Air flow:	Swirling
Duration:	8 hours
Temperature range:	15°C to 35°C
Relative humidity:	25% to 75%
Ambient air pressure:	860 mbar to 1060 mbar