



# Mining And Surface Certification (Pty) Ltd

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Page 1 of 2

## NON-METALLIC INDUSTRIAL SWITCH BOX

### 1. SUBJECT

The test and evaluation of a Non-metallic Industrial Switch Box for compliance with IP65 / IP66. An identical design enclosure was originally tested for IP66 (with switch cover fitted) by MASC under report MASC 12-567. Therefore, this test is not repeated.

Additional testing was now done on the Non-metallic industrial Switch Box without the switch cover, leaving the switch exposed, for IP65 / IP66.

### 2. STANDARDS

- IEC 60529:2013 (Ed 2.2) "Degrees of protection provided by enclosures (IP Code)"

### 3. DESCRIPTION

#### 3.1 General



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**MASC Report number 17-1832\_Grey****3.2 Drawings**

Drawing number:	Drawing title:	Edition:	Date:
065701-SB	TYPICAL HANDI FIT SWITCH BOX ASSEMBLY	Original	2008-05-09

**3.3 Identification**

The relevant IP rating and certificate number is not marked due to the mould having to be changed and the SANS 60529 not nominating specific marking requirements.

**4. SELECTION OF SPECIMEN**

Samples were supplied by CCG.

**5. METHODS AND RESULTS****5.1 Degrees of protection (IP)**

Samples were tested as per the requirements of the relevant standard for IP6X, IPX5 and IPX6 rating.

The cover of the Non-metallic industrial Switch Box were removed leaving the switch exposed.

**6. CONCLUSIONS**

The Non-metallic industrial Switch Box as described above complied with IEC 60529:2013 (Ed 2.2) "Degrees of protection provided by enclosures (IP Code)":

- IP Rating: IP65 / IP66

Yours faithfully



**Roelof Viljoen**  
**TECHNICAL SPECIALIST**

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