



## Description:

This product is 13A non-rewirable surge protected individual switched extension socket with surge protected indicator and power indicator

## Specification:

Current Rating : 13A, 250V

### Surge Protection Data :

Voltage : 220V to 240V  
Maximum Operating Voltage : 300V AC (rms)  
Mains Three Way Protection : LN LE NE  
Peak Current : 4.5kA  
Maximum Energy : 3 × 125J  
Maximum Clamping Voltage : 775V  
Response Time : < 50ns

## Standard:

BS 1363 / A; BS 5733 / A

## Conditions for Use:

An ambient temperature in the range -5°C to +40°C, the average value over 24 hours not exceeding 25°C

A situation not subject to exposure to direct radiation from the sun or other source of heat like to raise temperatures above the limits specified in a).

An altitude not exceeding 2,000 metres above sea level.

An atmosphere no subject to abnormal pollution by smoke, chemical fumes, rain, spray, prolonged periods of high humidity or other abnormal conditions.

## Construction

| Item | Description           | Material                 |
|------|-----------------------|--------------------------|
| 1    | Socket base and cover | FRPP                     |
| 2    | Conductors (bus bar)  | Brass                    |
| 3    | Cover Screw           | Mild steel nickel plated |

| Item | Description                            | Material   |
|------|--|--|
| 4    | Switch                                 | Nylon house with brass terminals                                     |
| 5    | Shutter                                | Nylon (PA)   |
| 6    | Spring                                 | Mild steel   |
| 7    | Neon lamp with 220 K $\Omega$ resistor | Orange light   |
| 8    | Neon lamp cover                        | Polycarbonate (PC)   |
| 9    | Switch Rocker                          | Polycarbonate (PC)   |
| 10   | Surge component                        | Metal oxide varistor + thermal fuse + neon indicator (if applicable) |
| 11   | Plug                                   | 13A BS 1363 plug   |
| 12   | Cable                                  | PVC, BS6500 3 $\times$ 1.25 mm <sup>2</sup>                          |

## Safety Specifications:

| Item                  | Conditions  | Requirements   |
|-----------------------|---|--|
| Appearance            | -   | No defect such as cracks, deep scratches or blemishes  |
| Marking               | -   | Shall be legible and must be clear   |
| Insulation resistance | 500 + 250V DC 1 minute                              | Shall not be less than 5M $\Omega$   |
| Dielectric strength   | 2,000 $\pm$ 60V 1 minute                            | No damage or breakdown   |
| Resistance to aging   | 70 $^{\circ}$ $\pm$ 5 $^{\circ}$ 168 hours          | No cracks or become sticky   |
| Construction          | 20 $^{\circ}$ $\pm$ 5 $^{\circ}$                    | Complied with figure 11, 12, 14, 16 gauge  |
| Torque test           | Value of 0.6Nm (6.1 kgf / cm)                       | Terminal, cord grip and cover screws shall withstand the torque applied                                |
| Glow wire test        | 650 $^{\circ}$ / 750 $^{\circ}$ electrically heated | Flame must extinguish within 30 seconds.   |
| Temperature rise      | 14A, 250V   | Temperature rise must not exceed:<br>1. Terminals or terminations : 52K<br>2. Accessible surface : 52K |

| Item                          | Conditions  | Requirements  |
|-------------------------------|---|---|
| Make and break test of switch | 13A, 250V, 15,000 times   | Voltage drop across each switched pole shall not exceed 75mV                              |
| Drop test                     | Fit with 3G 1.25mm <sup>2</sup> cable, 2.25m and drop at a height of 0.4m above the floor             | No external damage which might affect safety and no components shall have become detached |
| Live parts accessibility      | Subjected to 1mm test probe with applied force of 5N when they are mounted and wired as in normal use | Live parts of socket shall not be accessible  |

## Part Number Table

| Description                          | Part Number |
|--------------------------------------|-------------|
| Extension Lead, 4 Gang, NDIV-SW, 2 M | 2814S       |

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