

## Socket Outlets

2 amp, 5 amp, 13 amp  
& 15 amp

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Please leave this leaflet with the end user for future reference

43097PL Ed.1



## A. PRODUCT FEATURES

Refer to the product packaging for the type of socket being installed.

All sockets should be mounted on boxes with a minimum internal depth as specified in Section B.

Certain sockets have a Non-Standard Earth socket arrangement (see Section D1).

Certain sockets have a Double Earth facility (see Section D2).

Three Gang Switchsocket is supplied fitted with a 13A fuse (see Section E).

## B. RECOMMENDED MK BOX LN's

### 1.5mm Metal Frontplate Product Ranges:

|                    |      |       |
|--------------------|------|-------|
| Flush Metal Boxes: | 35mm | 47mm* |
| 1 Gang             | 866  | 877   |
| 2 Gang             | 886  | 878   |

\* Boxes providing extra wiring space

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## B. RECOMMENDED MK BOX LN's Cont

### Logic Plus Products:-

|        | Flush Metal Boxes<br>25mm | Surface Metal Boxes;<br>With 35mm*<br>Knockouts | Surface Metal Boxes;<br>Without<br>Knockouts | Surface Plastic Boxes |
|--------|---------------------------|-------------------------------------------------|----------------------------------------------|-----------------------|
| 1 Gang | 861                       | 866                                             | K2213                                        | K2211                 |
| 2 Gang | 862                       | 886                                             | K2214                                        | K2212                 |
| 3 Gang | K863                      | - Not Available -                               |                                              |                       |

### 9mm Metal Frontplate Product Ranges:-

|        | Flush Metal Boxes<br>25mm | Surface Metal Boxes;<br>With 35mm*<br>Knockouts | Surface Metal Boxes;<br>Without<br>Knockouts |
|--------|---------------------------|-------------------------------------------------|----------------------------------------------|
| 1 Gang | 861                       | 866                                             | K899 ALM                                     |
| 2 Gang | 862                       | 886                                             | K897 ALM                                     |

\* Boxes providing extra wiring space

Surface metal boxes are suitable for mounting Albany Plus (MCO finish), or as spares for Metalclad Plus.

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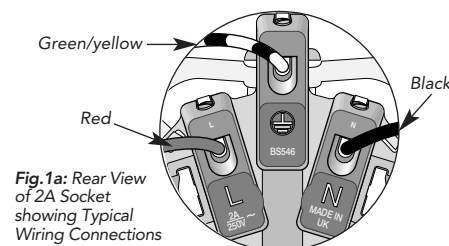
## C. SAFETY INSTRUCTIONS

- To prevent the risk of electrocution it is essential to turn off the mains electricity supply before commencing work.
- Do not work on this product live.
- To ensure a safe installation;
  - this product should be installed by a competent person (e.g. a qualified electrician) in accordance with these instructions and the appropriate clauses of the current edition of the IEE Wiring Regulations (BS 7671).
  - it is essential that all connections are made as instructed, that cables are not stressed and that terminal screws are fully tightened.
  - all sockets must be earthed and the earth leads adequately sleeved.

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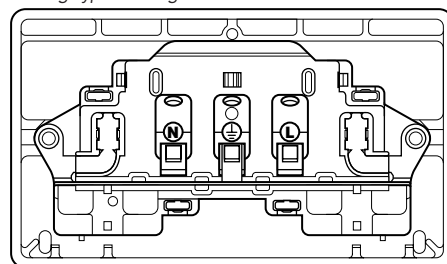
## C. SAFETY INSTRUCTIONS (Cont.)

- Ensure that all electrical connections are correct and fully secured and that the product is screwed securely to its mounting box before turning the mains electricity supply on.
- To prevent fire hazard do not exceed the maximum rated current of the socket.



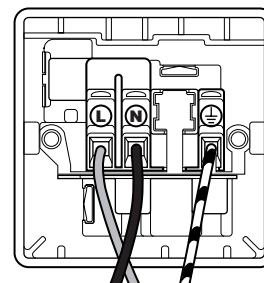
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Fig.1: Rear View of a 2 Gang 13A Inboard Switchsocket Showing Typical Wiring Connections



Black Green/yellow Red  
To Mounting Box Earth Terminal if appropriate

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Base and Terminal Layout of the  
5 and 15 Amp Sockets

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## D. INSTALLATION

**IMPORTANT: Refer to safety instructions before starting work (Section C).**

- Remove frontplate fixing screws from their location on the back of the product.
- Ensure the mounting box is firmly secured to the wall. Flush mounted boxes should be installed flush or sub-flush to the surface.
- Strip back outer cable sheath and trim wires to the appropriate length to allow cable ends to reach terminals.
- Carefully strip red and black insulation by 13mm (1/2 inch).
- Slide a length of green/yellow insulating sleeve on to bare earth wire.
- You must connect the correct wire to the correct terminal (refer to fig.1).

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## D. INSTALLATION (Cont.)

**Note: Terminal screws are positioned ready for installation and should not be unscrewed further.**

The red wire must be connected to the terminal marked L.

The black wire must be connected to the terminal marked N.

The bare wire (green/yellow sleeved) must be connected to the terminal marked Earth.

If product has TWO earth terminals - either or both can be used for normal installations.

If you are connecting non standard socket outlets refer to Section D1.

If you are connecting socket outlets using the double earth facility, refer to Section D2.

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Where a mounting box earth terminal is provided, connect a length of green/yellow sleeved wire between the terminal and the earth terminal on the socket. Tighten all terminal screws securely, ensuring all conductors are clamped.

- Carefully push wired unit back into the mounting box, ensuring cables are not trapped or pinched.
- Locate and tighten frontplate fixing screws. Do not overtighten screws, to do so may damage frontplate or box threads.

**The completed installation should be tested in accordance with the current IEE Wiring Regulations by a qualified electrician.**

**If in any doubt, contact MK Technical Sales Service Department. Telephone 01268 563720.**

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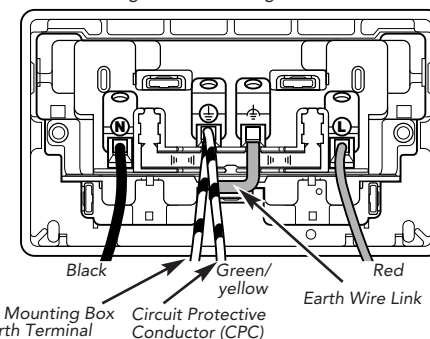
## D1. INSTALLATION OF NON STANDARD AND CLEAN EARTH 13 AMP SOCKETS

These switchsockets are for use on installations where restricted access or a clean earth is required. Non standard sockets will only accept MK LN 647 13A Non-Standard Plug, with 'T' shaped earth pin.

- For use as a 'Restricted-use' socket (refer to fig. 2), leave the earth wire-link in position and wire as instructed in Section D. Either or both terminals can be used for the circuit protective conductor and the mounting box bonding earth.
- For use on a 'Clean Earth' installation (refer to fig. 3 overleaf).
  - Remove earth wire link.
  - Connect socket as instructed in Section D except: connect the functional clean earth supply conductor to the terminal marked Earth, connect the circuit protective conductor (CPC) and any mounting box earth to the terminal marked Earth.

### Restricted Use Installation

Fig. 2: Rear view of a 2 gang non standard 13A switchsocket showing terminal markings and earth wire link.



Black Green/yellow Red  
To Mounting Box Earth Terminal Circuit Protective Conductor (CPC) Earth Wire Link

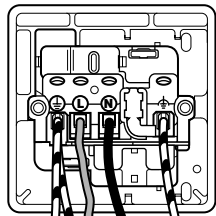
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## D1. (continued)

### Clean Earth Installation

Fig. 3: Rear view of a 1 gang non standard 13A switchsocket showing terminal markings and earth wire link removed.



CPC and to Mounting Box Earth Terminal (Green/yellow) (Red) (Black) Functional Clean earth (Green/yellow)

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## D2. INSTALLATION OF 13A SOCKETS WITH DOUBLE EARTH FACILITY

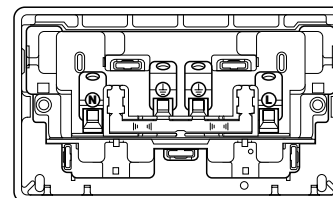
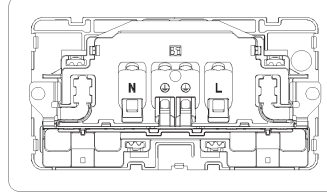
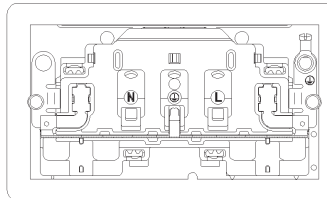
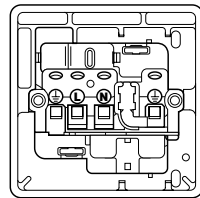


Fig. 4: Rear views of 1 & 2 gang 13A switchsockets with double earth facility, showing positions of earth terminals

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One gang switchsockets, two gang outdoor switchsockets, two gang unswitched sockets and three gang switchsockets are fitted with two earth terminals, (identified ⊕), on a common busbar to provide a double earth facility for use when installations require additional earthing capacity and are to comply with Regulation 607 of BS 7671 IEE Wiring Regulations. These should be referred to for specialist installation guidelines.

For normal installations either or both earth terminals may be used. See figure 4 for typical terminal layout.

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## E. CHANGING THE FUSE

### 3 GANG SOCKETS ONLY

1. Remove **all** plugs from socket outlet.
2. Unscrew fuse carrier fixing screw to partially eject fuse carrier (see Fig. 5a).  
Pull carrier out releasing fuse (see Fig. 5b). Note: fuse carrier cannot be fully removed from the product.  
Fit new fuse, push fuse carrier in and tighten screw until carrier is fully home ie. flush with socket surface. Do not overtighten.
3. Always fit a BS 1362 type 13A fuse (as used in 13A plugs).
4. Plug in appliances one by one and check operation.

If new fuse blows again, the last appliance connected may be faulty or you have exceeded the maximum total load of 13 Amp (3250 watts).

If in doubt consult a qualified electrician.

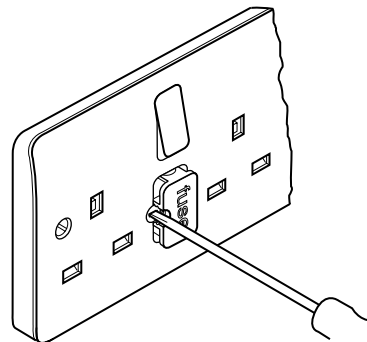


Fig. 5a

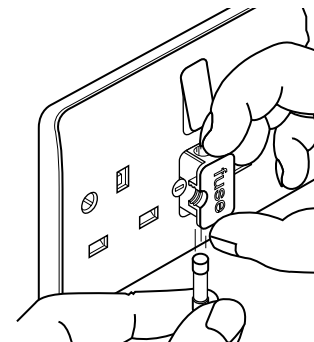


Fig. 5b

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## F. CLEANING

In order to protect the quality surface of the front plate periodic cleaning should only consist of polishing with a dry lint free soft cloth. On no account should abrasive or domestic cleaners be used.

## G. DISPOSAL INSTRUCTIONS

At the end of its useful life, product and packaging can be safely disposed of via standard refuse facilities.

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## H. GUARANTEE

The Company undertakes to replace or repair, at its discretion, this product should it become defective within a period of 20 years after delivery, solely as a result of faulty materials and/or workmanship. Understandably, if the product has not been installed or maintained in accordance with the Company's instructions, has not been used appropriately, or if any attempt has been made to rectify, dismantle or alter the product in any way, the guarantee will be invalidated.

This Guarantee states the Company's entire liability. It does not extend to cover consequential loss or damage or installation costs arising from the defective product. This Guarantee does not restrict or infringe the normal statutory or other rights of the consumer.

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### Intellectual Property Application

Patent EP 00539093

Patent 2261120

Patent 2266814

Registered Design 2025114

Registered Design 2025115

Registered Design 2025116

Registered Design 2031394

Registered Design 2031395

Registered Design 2031396

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## COMPLIANCE WITH E.U. DIRECTIVES

### Compliance with E.U. Directives

Non-Standard socket outlets comply with the requirements of the Low Voltage Directive (72/23/EEC).

**Note:** Standard sockets (BS 1363 and BS 546) do not fall within the scope of this Directive.

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It's simply safer to say MK™

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