

Masterseal™ Socket Outlet

16A 250V 2 Pole + Side Earth

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A. INTRODUCTION

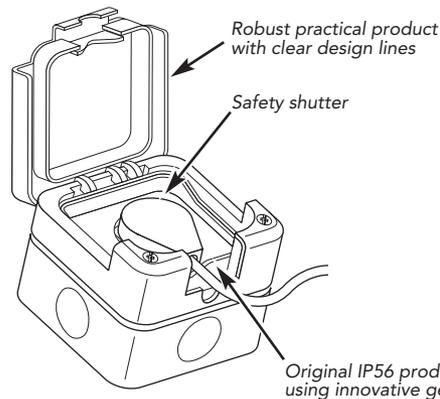
The Masterseal Range consists of surface mounted switches, 13A socket outlets, 16A 2 pole & side earth socket, a photoelectric switch, an RCD protected socket, a junction box and enclosures to accommodate various modules.

Made from a tough thermoplastic material, the Masterseal range of products are robust and suitable for use indoors and outdoors, wherever corrosion resistance, dirt and moisture proofing is required. All products accept MK push in conduit and cable entries, which compliment the range.

Socket products meet a rating of IP 56 when both in and out of use.

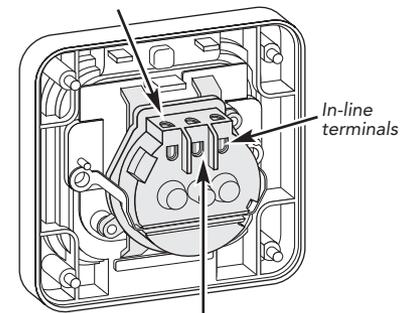
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B. PRODUCT FEATURES



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Backed out, ready to wire terminal screws for easier installation



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C. SAFETY INSTRUCTIONS

1. To prevent electrocution it is essential to turn off the mains electricity supply before commencing work.
2. 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 local Regulations.
 - it is essential that all connections are correct, that cables are not stressed and that terminal screws are fully tightened.
 - all sockets must be earthed and the earth leads adequately sleeved.
 - earth continuity must be maintained for all metal conduit that enters the back box.
3. To prevent fire hazard do not exceed the rated current.

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D. INSTALLATION NOTES

IMPORTANT:

Refer to Section C Safety Instructions before starting work.

1. The enclosure should only be mounted vertically on a flat surface free from grease, dirt and loose material.
2. Prior to mounting the enclosure, the blank fitted at the required cable entry should be removed and replaced with the desired cable entry or box coupler.
3. Position the back box ensuring that one of the drain holes is located at the bottom left hand corner. No. 8 wood screws should be used for fixing box to wall.
4. If conduit enters from the top or side of the enclosure, the drain hole must be drilled out using a 5mm diameter drill bit, to allow any condensation formed in the conduit system to drain out of the unit. Opening the drain hole will reduce the IP rating therefore, ensure that jetted water is not directed at the unit.
5. Drain holes should not be drilled out if the product is to be used in an excessively dusty environment, (eg. sawmill). Under these circumstances only bottom entry conduit entry should be used.
6. If conduit enters from the bottom of the enclosure, in order to maintain the IP rating of the product, a condensate hole of at least 5mm diameter must be provided at the lowest point of the conduit run.
7. Metal conduit can be earthed using the Earth Lead Adaptor, (LN 9933).
8. If wiring directly into the unit without using conduit entry ensure that cable specified for outdoor use is used with the cable entry.
9. LN 56461 PVC Cable Entry should only be used in the bottom of the enclosure. If used, conduit must be sealed to the conduit entry using a non-setting adhesive, eg. Egaweld No.2. It is not necessary to apply the adhesive to the enclosure/conduit joint.
10. Additional enclosures should not be fitted immediately above or below the socket, ie using the box coupler.
11. The Rear Entry Back Box LN 56504 is not suitable for use with this socket.
12. **WARNING: Do not allow any form of paint or wood preservative to come into contact with any part of these products, as they may damage the plastics used. These products can safely be mounted on surfaces coated with paint/preservative when they are dry.**

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E. INSTALLATION INSTRUCTIONS

IMPORTANT:

Refer to Section C Safety Instructions before starting work.

1. Open the socket lid by pressing the protrusions on the bottom of the lid and lift. Remove the frontplate from the enclosure.
2. Push out the blank fitted to the required cable entry point and replace with the desired conduit entry or coupler.
NOTE: The entries will be easier to insert if warmed in the hand prior to manipulating into the box. Ensure that the groove on the entry is fully located on to the box wall.
3. Drill out the drain hole if required, refer to installation notes 4 and 5 and figure 1. The complete profile should be filed out taking care not to damage the small internal wall.
4. Drill the back box screw fixing holes to accept an appropriate wall fixing.
5. Locate the conduit or cable in the required entry and screw the back box to the wall.
6. Strip back outer cable sheath and trim wires, see figure 2.

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E. INSTALLATION INSTRUCTIONS *continued*

- The bare earth wire must be sleeved.
- The correct wire must be connected to the correct terminal, see figure 3. This product must be connected to earth. Where a mounting box earth is provided, connect a sleeved earth cable from the box earth terminal to the socket earth terminal. Tighten terminal screws securely, ensuring all conductors are clamped.
- Carefully push wired unit back into the mounting box ensuring cables are not trapped or pinched.
- Before tightening frontplate fixing screws, ensure that the holes in the box seal are aligned with the fixing screw holes and the slot around the seal aligned with the ribs in the enclosure.
NOTE: If the enclosure seal is not correctly positioned the IP rating of the product may be affected. Do not overtighten screws, to do so may damage frontplate or box threads.

The completed installation should be tested in accordance with the local Wiring Regulations by a qualified electrician. If in any doubt, contact your local MK representative or alternatively MK directly (see Section J technical Help Line).

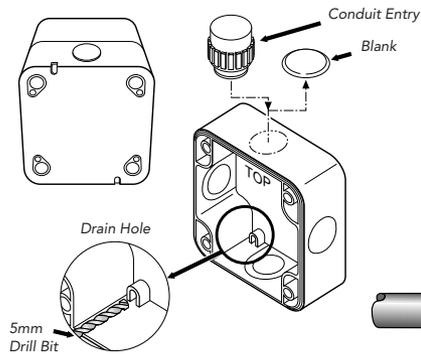


Fig. 1

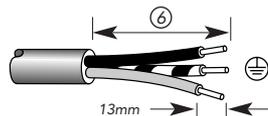


Fig. 2

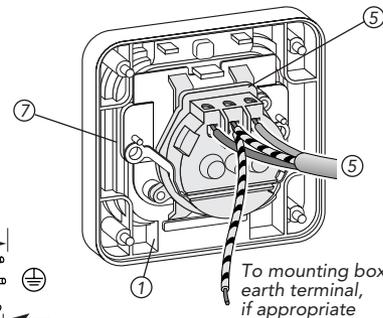


Fig. 3

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F. OPERATING INSTRUCTIONS

- To maintain the IP rating of the socket with a plug in position, the lid must be closed and latched with the cable held in position within the cable seal.
- The socket will accept and seal effectively, plugs with a 90° cable exit. If in doubt contact your local MK representative or alternatively MK directly.
- The cable seals will remain effective at temperatures below zero provided a plug is not installed or removed at these temperatures.

G. MAINTENANCE

Cleaning

- The exterior of the products should only be cleaned using a solution of mild detergent (eg. washing up liquid) and warm water.
- Polycarbonate is a highly durable material which is ideal for use in most environments. However, you should seek advice from MK before installing in environments where chemicals, synthetic oils or harsh cleaners are likely to be used.

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H. REPLACING CABLE SEAL CAPSULE

- The cable seal capsule (LN 56837) must be replaced after five years in use or if the seal gel suffers any damage eg. tearing.
- Using a flat bladed screwdriver, carefully remove the two cable seal capsules.
- Refit new capsules by aligning slots in capsules with ribs in socket lid and frontplate and press firmly in position.

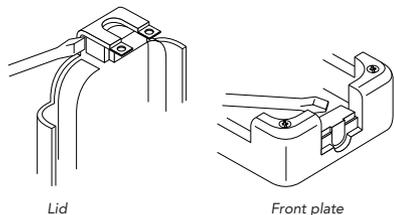


Fig. 4

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J. TECHNICAL HELPLINE

If in any doubt regarding the installation and use of MK products, please contact one of our trained personnel:

MK Technical Sales Services Department
Telephone (44) 1628 563720 Facsimile (44) 1628 563064
email: more@mkelectric.co.uk
Internet www.mkelectric.co.uk

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L. DISPOSAL INSTRUCTIONS

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

M. 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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It's simply safer to say MK™

MK Electric Limited
The Arnold Centre, Paycocke Road, Basildon, Essex SS14 3EA
Telephone 01268 563000 Facsimile 01268 563563 (UK Sales)
Facsimile 01268 563360 (International)
email: more@mkelectric.co.uk
Web site: www.mkelectric.co.uk

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