

# WIRING & OPERATING INSTRUCTIONS

## WEATHERPROOF 13A SOCKETS

TECHNICAL HELPLINE: 0845 194 7584

### SAFETY WARNING

Before use please read carefully and use in accordance with these safety wiring instructions. Before commencing any electrical work ensure the supply is switched off at the mains. Either by switching off the consumer unit or by removing the appropriate fuse.

Wiring should be in accordance with the latest edition of the IEE regulations (BS 7671)

If in doubt consult a competent electrician.

### SAFETY INSTRUCTIONS – IMPORTANT

Please read 'CHANGES TO BUILDING REGULATIONS' (page 10)

1. An outdoor location should be chosen ensuring adequate access to a mains supply circuit. The circuit MUST be protected by an appropriate fuse, circuit breaker or RCD (Residual Current Device) in accordance with current IEE wiring regulations.

2. Where conduit is used for cable runs, water condensation MUST be prevented from collecting inside the unit & conduit. Drain holes MUST be drilled out (see Installation Instructions)

3. If metal conduit is used, earth continuity across the conduit must be maintained using appropriate connections (not supplied). An earth terminal in the Rear Box is provided as required. An earth connection from supply circuit MUST be made to earth terminal of socket.

4. Where outdoor cable runs occur, ensure cable recommended for outdoor installations is used. In general, rubber insulated cable & plastic M20 cable glands can be used. Alternatively standard flat PVC twin & earth mains cable inside 20mm plastic or metal conduit may be used. Where necessary, SWA (Steel Wire Armoured) cable with metal cable glands should be used.

The outdoor use of unprotected flat PVC insulated cable is NOT recommended.

4.

### Wire Identification – Twin & Earth Cable

Note - As from 1st April 2004 new colour codes for hard wire installations was introduced.

EARTH = Green/Yellow Slewing

NEUTRAL = BLACK (pre Apr 04) / BLUE (after Apr 04)

LIVE = RED (pre Apr 04) / BROWN (after Apr 04)

To prevent fire hazard always use cable of the correct rating, size and type for the application.

### PRODUCT APPLICATION & FEATURES

The Weatherproof Socket range comprises a robust polycarbonate enclosure with durable integrated 1 or 2 gang Switched or Unswitched Sockets. It provides a convenient & safe wall-mounted power point for outdoor equipment such as DIY & garden tools.

The enclosure is IP rated in use, which means that when the front cover is securely closed, the sealed construction provides a very high level of protection against the ingress of both water & dust.

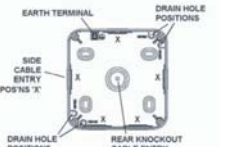
Access to the socket is by means of the hinged front cover, which for security reasons can also be locked by padlock (not supplied).

5. To ensure continued safe & proper weatherproof operation, the unit MUST not be left with the Cover raised open or the Catch left unlocked. Unused cable entries MUST have Blank Plugs fitted.

### INSTALLATION INSTRUCTIONS

#### ENSURE SAFETY INSTRUCTIONS HAVE BEEN READ FIRST

Both 1gang & 2 gang Rear Boxes have multiple cable entries on sides & one rear knock-out cable entry. Drain hole positions are provided in relation to conduit positions used. Note position of earth terminal.



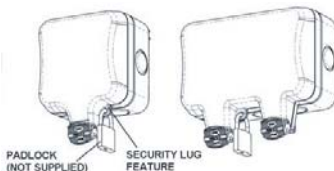
#### Note

1 gang (as shown) has 4 drain hole & 5 cable entry positions.

2 gang (not shown) has 2 drain hole & 8 cable entry positions.

13. Switch power back on, check Socket is working & ensure Cover & Catch operate correctly. The product is now ready to use.

14. For security to prevent unwanted tampering with Socket, a lug feature with a 6mm hole is provided to accept a padlock or similar locking security device (not supplied)



15. During life of product, any cleaning should only be carried out with a damp cloth using a mild solution of detergent & warm water. DO NOT USE solvent based cleaners as these may cause damage. It is recommended to ONLY clean the external surfaces with Cover closed. DO NOT get any water on Socket if Cover is open.

8.

Connect LIVE wire to BROWN LIVE (L) terminal  
Connect NEUTRAL wire to BLUE NEUTRAL (N) terminal  
Connect EARTH wire to GREEN/YELLOW (E) terminal

Note - the colours of the wires will be dependent on the type of cable used. See Wire Identification section for reference.

8. All earth connections MUST be made & continuity maintained. Note - the Socket has two linked earth terminals but only one needs to be used for this installation.

9. Where any earth conductor is a bare wire, it MUST be sleeved with green/Yellow sleeving.

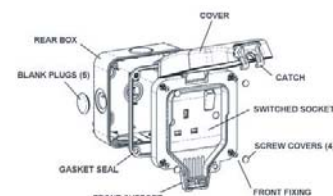
10. Ensure all terminal screws are tight & all wires are neatly routed & not unduly stretched or pinched.

11. During life of product, any cleaning should only be carried out with a damp cloth using a mild solution of detergent & warm water. DO NOT USE solvent based cleaners as these may cause damage. It is recommended to ONLY clean the external surfaces with Cover closed. DO NOT get any water on Socket if Cover is open.

12. Fit Screw Covers to complete installation.

8.

1.



1 gang switched socket – exploded view

The Front Assembly comprises Front Support, Switched Socket, Cover & Catch which is mounted to a Rear Box using 4 captive fixing screws. A Gasket Seal is located on the front edge of Rear Box. Re-usable Blank Plugs are pre-fitted & are pushed out from the inside. Screw Covers are provided to hide fixings after installation.

1. The unit should be mounted on a clean, rigid vertical surface suitable to accept screw type fixings. Surface should be reasonably flat as unevenness could cause product damage or affect operation.

2. Remove fixing screws & remove Front assembly from Rear Box.

3. For cable entry, decide if conduit is being used & entry positions.

For side, top or rear entry the lowestmost drain hole position MUST be drilled out using a 5mm drill. ONLY ONE drain hole position must be drilled.

For bottom entry a drain hole MUST NOT be drilled in Rear Box, but a drain hole MUST be drilled at lowestmost point of conduit run.

For rear entry, cut or drill out rear knock-out. For extra sealing protection, a channel around knock-out is provided to accept a bead of sealant (not supplied) when fixing to mounting surface.

### NOTE

The drilling out of a drain hole or removing rear knock-out will reduce the IP rating of the product.

5.

### CHANGES TO BUILDING REGULATIONS – IMPORTANT!

As from 1 January 2005, any electrical work done in domestic, fixed wiring installations in England and Wales, will have to follow new rules & changes to the Building Regulations Part P. These rules have been introduced to help reduce the number of deaths, injuries and fires caused by faulty installations.

The installation work may be carried out by anyone providing it is in accordance with the Regulation standards.

Certain electrical work (non-notifiable or minor work) may be carried out without having to use a registered electrician or notify Local Authority Building Control, such as:-

- replacing any electrical fitting (for example, socket outlets, light fittings, control switches)
- adding fused spurs, sockets or lights to an existing circuit (but not in a kitchen, bathroom or outdoors)
- any repair or maintenance work

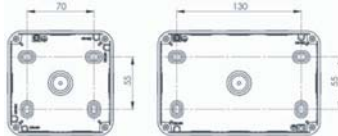
For minor work done by a non-qualified electrician, it is highly recommended it is checked by a qualified electrician to ensure it is safe.

2.



2 gang switched socket

4. Mount the Rear Box using No.8 screws in all four, or at least two diagonal positions on fixing centres shown. The fixing holes are slotted to enable some rotation adjustment if required. Fit supplied Bungs over all used fixing screw positions to seal aperture recesses.



5. Make cable entry into Rear Box as required. Only remove Blank Plugs for positions used. Ensure adequate excess lengths of cable for connection to socket. Install & seal all cable glands & conduit to manufacturer's instructions. Ensure the Gasket Seal is properly fitted over front edge of Rear Box

6. Offer up Front Assembly to Rear Box to determine final lengths of cables & cut to suit. Strip outer insulation as required & then trim insulation on individual wires 10-12mm to expose conductor ends.

6.

For all other work (notifiable or major work) a Building Regulations application is required & it must be checked to make sure it is safe.

This may be done by either an electrician who is part of a competent person self-certification scheme, or by notifying the Local Authority Building Control Department who will make required arrangements.

An application must be made to the Local Authority before commencing work with this application:-

- adding a new circuit
- adding/altering any circuit in a room with water (kitchen, bathroom, etc)
- adding/altering any circuit outdoors (outdoor sockets, lights, etc)

Where work is done by a qualified electrician, they will be responsible for checking the work, & Local Authority does not need notification.

Where a qualified electrician or Local Authority is responsible for checking the work, they will provide a certificate or notice to confirm that the installation is tested & safe to use.

### IT IS RECOMMENDED TO USE A QUALIFIED ELECTRICIAN

If there is any doubt whether electrical work needs notification of the Local Authority, they should be contacted first for advice.

10.

9.

11.