



# BG ELECTRICAL WP22ARCD-02 Weatherproof 13A RCD Switched Socket Instruction Manual

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**WPRCDFCUIL-B**  
**Wiring Accessories**  
**Weatherproof RCD Fused Connection Unit**

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## Installation Instructions

Before commencing work always isolate the power at the consumer unit/fuse box.

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 Front assembly from Rear Box.

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

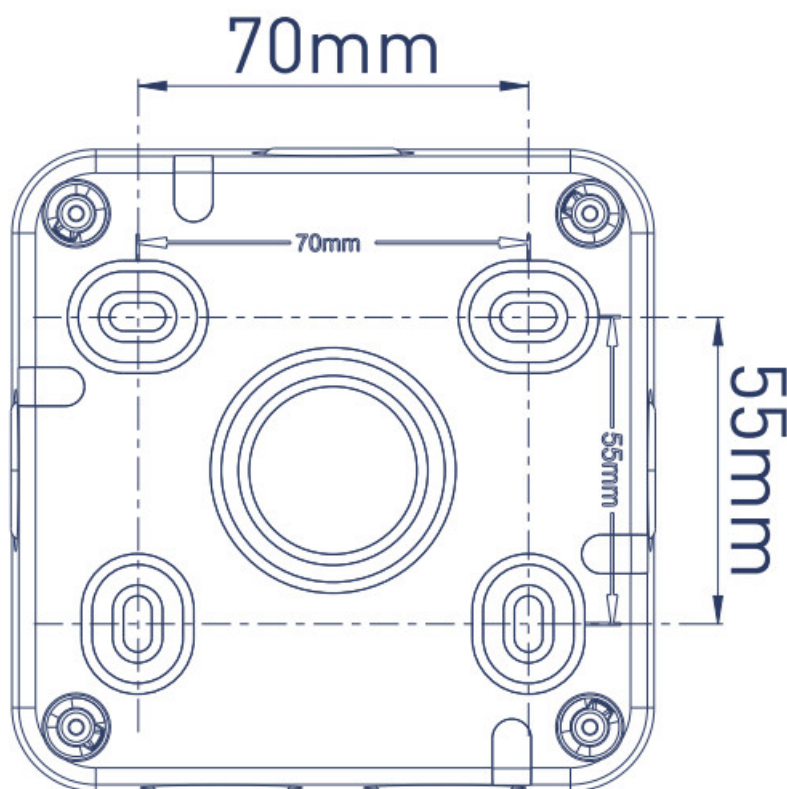
For side, top or rear entry the lowermost drain hole position MUST be drilled out using a 5mm drill. ONLY ONE drain hole position must be drilled.

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

For rear entry, drill/cut the appropriate size hole. For extra sealing protection, channels around knock-out and fixing holes are provided to accept a bead of sealant (not supplied) when fixing to mounting surface.

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

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 the blanking plugs for positions used. Ensure adequate excess lengths of cable for connection to the Unit. Install & seal all cable glands & conduit to Manufacturer's instructions.

To install, remove the blanking plug from rear box, and fit gland or conduit. Ensure the gland or conduit and cable entry are sealed with a non-setting sealant.

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.

7. Connect the wires to the correct rear terminals.

Connect LIVE wire to BROWN LIVE (L) terminal

Connect NEUTRAL wire to BLUE NEUTRAL (N) terminal

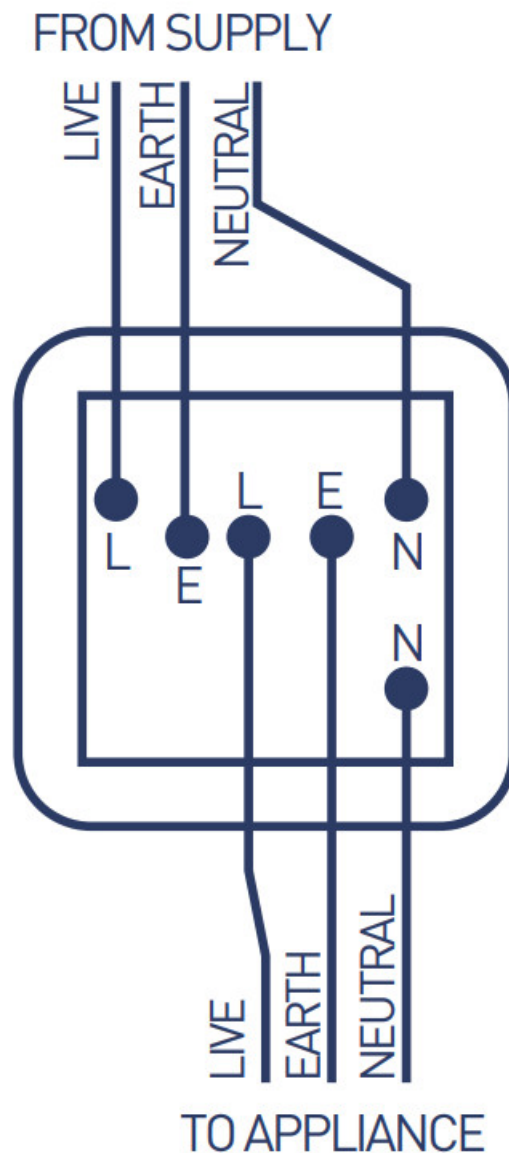
Connect EARTH wire to GREEN/YELLOW (E) terminal

**NOTE**

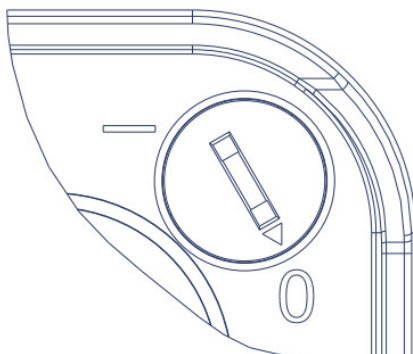
(1) The colours of the wires will be dependent on the type of cable used.

(2) It is possible to remove the accessory from the Front Assembly to aid wiring by releasing the retaining clips on the rear.

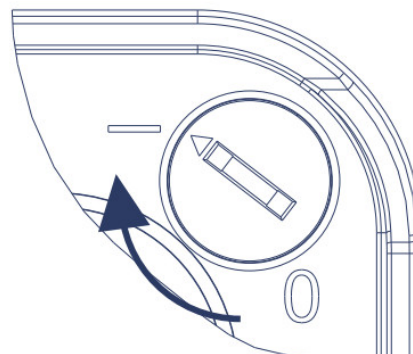
### Wiring Diagram



8. Tighten terminal screws securely (Do not over tighten).
9. Any earth connections MUST be made & continuity maintained. All bare Earth wires must be sheathed with green/yellow sleeving.
10. After wiring the Unit, refit Front Assembly to Rear Box, secure using the quick fix fasteners. Turn 150° clockwise with a suitable flat bladed screwdriver to tighten, from 0 to I – DO NOT OVER TIGHTEN.



Fastener in open position



Fastener in locked position

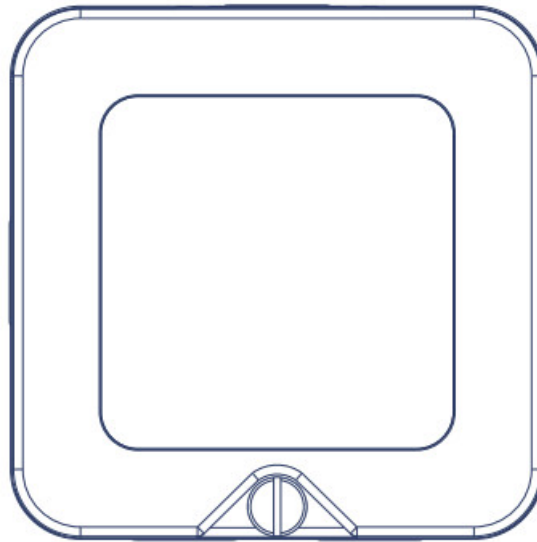
11. Once the installation has been completed correctly, replace the fuse/reset MCB (trip), switch the power back on

at the consumer unit and test.

The hinged cover must be completely closed by tightening the centre fastener to maintain the IP66 rating.

Do not allow water to enter the unit when the cover is open.

Switching of the unit should be done with the cover closed, only open to replace the fuse.



## Replacing the Fuse

1. To replace fuse, switch off power at the mains and open the hinged cover by unscrewing the centre fastener in the lower edge of hinged cover.
2. Using a flat bladed screwdriver, carefully lever open the fuse carrier.
3. Pull the carrier out and replace the fuse.

**Note** – The fuse carrier cannot be fully removed from the product.

4. Fit a new fuse (to BS1362) and push the carrier home so that it fits flush with the surface of the frontplate.

If the new fuse fails again, check the connected appliance as it may be faulty or the total load of 13 Amps, 3120 Watts has been exceeded.

If in doubt consult a competent electrician.

## Safety Warning

For your safety, this product must be installed in accordance with local Building Regulations. If in any doubt, or where required by the law, consult a competent person who is registered with an electrical self-certification scheme. Further information is available online or from your Local Authority.

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 or turning off MCB (trip). Wiring should be in accordance with the latest edition of the IET regulations (BS 7671). To prevent fire hazard always use cable of the correct rating & type for the application.

Warning do not exceed the load rating of this device as stated on the rear of the product.

**Note** – As from 1st April 2004 new colour codes for hard wire installations were introduced.



**EARTH** = Green/Yellow Sleaving

**NEUTRAL** = Black (pre Apr 04) / Blue (after Apr 04)

**LIVE** = Red (pre Apr 04) / Brown (after Apr 04)

If installed correctly BG Electrical Weatherproof products provide an IP66 level of protection, this means that the sealed construction provides a very high level of protection against the ingress of both water & dust.

## **Safety Instructions**

**Please read carefully before installation.**

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 IET 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.
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.

## **Safety Advice**

What is a safety RCD fused connection unit?

Your safety RCD continuously monitors the power supply to any electrical appliance connected to it and cuts off the power within 40 milli seconds if an earth current fault is detected. This is fast enough to prevent a fatal electric shock. Electrical appliances can become dangerous if the wiring becomes loose, if they or their power cords become damaged, or if they get wet. Electrocutation is also possible if fingers, wet hair or other conductive bodies enter the appliance. In all these cases your safety RCD will instantly cut off the electricity before you or a member of your family receives a potentially fatal electric shock.

## **Test Procedure**

Read these instructions before use, and always strictly observe the test procedure. Note Green indicator represents OFF, Red for ON.

1. Insert the appropriate BS1362 fuse into the RCD Connection Unit.
2. The RED indicator will normally show in the CLEAR window. If it does not press RESET (orange) button and the RED indicator should appear.
3. Press the TEST button. The RED indicator will disappear from the CLEAR window.  
DO NOT USE THE SOCKET IF THE RED INDICATOR REMAINS AND SEEK THE ASSISTANCE OF A QUALIFIED ELECTRICIAN
4. Press the RESET button. The RCD has now been set for safe use providing the RED indicator shows in the CLEAR window.  
SHOULD THE RCD FAIL TO COMPLETE ANY PART OF THE TEST PROCEDURE, OR CONTINUOUSLY TRIPS OFF WHEN IN USE, STOP USING AND SEEK EXPERT ADVICE

## Service Conditions

This RCD is only suitable for use under the following conditions of service:

1. An ambient temperature range of -5°C to +40°C, with an average value not exceeding +35°C over one full day.
2. An altitude not exceeding 2000m above sea level.
3. An atmosphere not subject to excessive pollution by smoke, chemical or flammable fumes; salt-laden spray; prolonged periods of high humidity or other abnormal conditions.
4. Not suitable for exposure to direct radiation from the sun or other source of heat likely to raise the temperature above the designated ambient, nor may it be suitable for subjection to excessive vibration.

Where service conditions differ from those prescribed above the advice of the manufacturer or responsible vendor should be sought.

A RCD socket should not be used as a substitute for basic electrical safety.

## Care

This BG Electrical Nexus Storm Weatherproof accessory is made from polycarbonate material that is durable with a high impact resistance. During the life of the product any cleaning should be carried out with a damp cloth using a mild detergent & warm water. DO NOT USE solvent based cleaners as these may cause damage.

## Technical

Voltage : 240V ac


Frequency : 50/60Hz


Rating : 13A

RCD Rating : 30mA

Trip Speed : 40ms

RCD : Latching mechanism

x55RCD – Type AC: 

x55ARCD – Type A: 

(x means product series)

Breaking Capacity : 250A

Short-circuit Current : 1,500A

Terminal Capacity : 4 x 1.5mm<sup>2</sup>, 3 x 2.5mm<sup>2</sup>, 2 x 4mm<sup>2</sup>, 1 x 6mm<sup>2</sup>

IP Rating : IP66 (when cover securely closed)

### ASTA Approved



Intertek  
Lic No. 1452

The ASTA quality mark is evidence that the product has been independently tested to comply with the relevant clauses of the applicable standards.

### Batch Code Explanation

yyWxx Manufacturing date code, year of manufacture (yy) and week of manufacture (Wxx)

### Address/Helpline

#### Luceco PLC

Stafford Park 1

Telford TF3 3BD

ENGLAND

(EU) Luceco SE

If you have further technical assistance you can get in touch with our Technical Helpline on: +44 (0)3300 249 279  
[technical.support@bgelectrical.co.uk](mailto:technical.support@bgelectrical.co.uk)

## Latching Operation

If the unit loses supply – perhaps in a power cut, power to the appliance will be cut. When the supply resumes through the RCD, the connected appliance will revert to its original state, i.e. if appliance is switched on, it will turn on as soon as power is resumed to RCD.

### IMPORTANT

For safety reasons, due to latching operation, it is recommended to take extra precaution when using power tools. Power will return after a break in supply.

Switch off by the switch before carrying out maintenance on your equipment.

## Environmental Protection



This symbol is known as the “Crossed-out Wheelie Bin Symbol”. When this symbol is marked on a product or battery, it means that it should not be disposed of with your general household waste. Some chemicals contained within electrical/ electronic products or batteries can be harmful to health and the environment. Only dispose of electrical/electronic/ battery items in separate collection schemes, which cater for the recovery and recycling of materials contained within. Your co-operation is vital to ensure the success of these schemes and for the protection of the environment.

## Documents / Resources



**[BG ELECTRICAL WP22ARCD-02 Weatherproof 13A RCD Switched Socket](#)** [pdf] Instruction Manual

WP22ARCD-02, WP22ARCD-02 Weatherproof 13A RCD Switched Socket, Weatherproof 13A RCD Switched Socket, 13A RCD Switched Socket, RCD Switched Socket, Switched Socket, Socket, BG\_IM\_WPRCDSKITIL\_B, WPRCDFCUIL-B