TIMEGUARD®

RCD Double Sockets

RCD05WAVN
RCD Double White Socket – Active
RCD06WPVN
RCD Double White Socket – Passive
RCD07MAVN
RCD Double Metal Socket – Active
RCD08MPVN
RCD Double Metal Socket – Passive

Installation & Operating Instructions

1. General Information

These instructions should be read carefully and retained for further reference and maintenance. The Timeguard range of RCDs, provide protection against fire hazard and rapid double pole disconnection from electric shock for the appliance connected to it. They fully comply with BS7288 and BS1363-2 (including updates and amendments). They are designed to mount on either a BS4662 recessed box or a BS5733 surface mount box (plastic versions only). Note: RCD – Residual Current Device.

2. Safety

- Before installation or maintenance, ensure the mains supply to the RCD fused connection unit is switched off and the circuit supply fuses are removed or the circuit breaker turned off.
- It is recommended that a qualified electrician is consulted or used for the installation of RCD fused connection unit and install in accordance with the current IEE wiring and Building Regulations.
- Check that the total load on the circuit including when this RCD fused connection unit is fitted does not exceed the rating of the circuit cable, fuse or circuit breaker.
- Electricity can be dangerous, use of an RCD should not be regarded as a substitute for basic electrical safety precautions.

- Always test the RCD before use. If the test procedure is not completed satisfactorily or an appliance continues to trip the RCD seek professional advice and switch off the appliance.
- To clean use a dry cloth only.
  Do NOT use any liquid cleaners.
- The RCD should NOT be used when it could come into contact with liquids or excessive atmospheric pollution.
- A warming of the casing during use is normal.
- Do NOT use outside the service conditions.
- For devices having a solid neutral, ensure the correct polarity of the incoming supply connections should the device trip automatically upon connection to the supply.

3. Wiring Tests – IMPORTANT

- Remove this product from the circuit if carrying out tests (as described in the IEE Wiring Regulations) for earth loop impedance, prospective short circuit current and insulation resistance.
- Use the enclosed wiring label to ensure this is carried out.

4. Technical Specifications

General RCD Specifications

- Operating Voltage: 230V AC 50 Hz
- Max Current: Fully complies with the current rating requited by BS1363-2 (including updates and amendments)
- Rated Trip Current: 30mA
- RCD Type: Double Pole, suitable for 2 and 3 wire applications
- Breaking Capacity: 250A (Earth leakage)
- Through Fault Withstand: 1500A
- Operating Temp Range: -5°C to 40°C
- Trip Speed: Less than 40msec at 150mA residual current
- Fully complies with: BS7288 & BS1363-2
- Fixed Cable Capacity: 1x 8mm² or 2x 4mm² or 3x 2.5mm²
- Flexible Cable Capacity: 10.5mm diameter maximum
- Altitude: <2000m
- CE Compliant

Note: The RCD socket units come in two forms, a latching (passive) version with the letter ‘P’ (passive) in the model number and a non-latching (active) version which has the letter ‘A’ (active) in the model number.
The latching version, if set, will retain closed contacts if the mains supply is interrupted – essential for applications such as freezers. The non-latching version, if set, allows the contacts to open if the mains supply is interrupted – a ‘safety must’ for applications such as power tools.

RCD05WAVN & RCD06WPVN

- Minimum Box Depth Required: 25mm
- Dimensions (H x W x D): 85mm x 145mm x 43mm

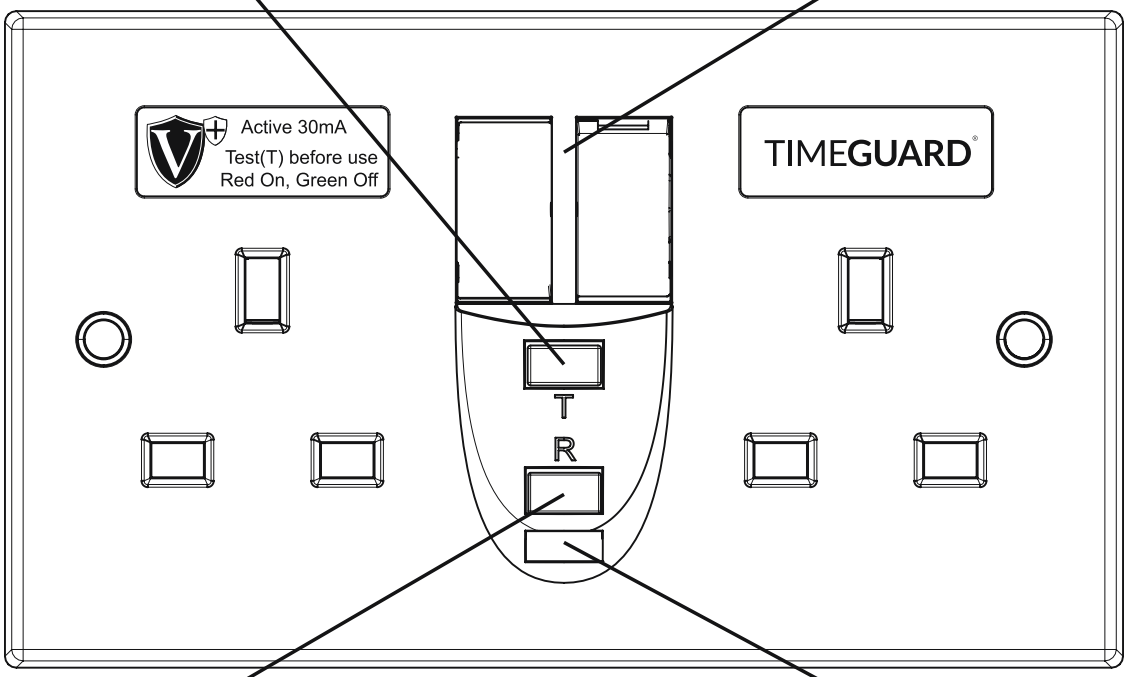
RCD07MAVN & RCD08MPVN

- Dimensions (H x W x D): 88mm x 148mm x 60mm

RCD05WAVN & RCD06WPVN

Red Test (T) button

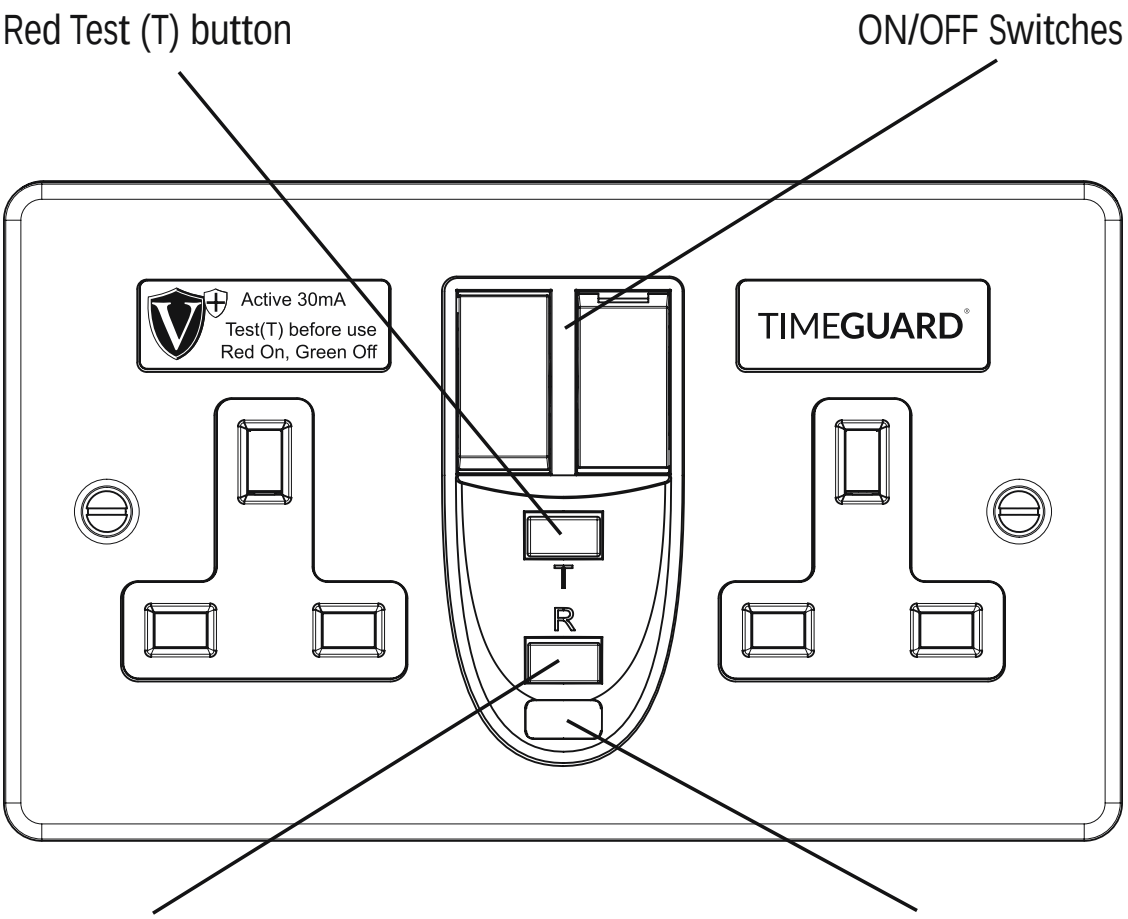
ON/OFF Switches



Blue Reset button (R) for RCD01WAVN,
Grey Reset button (R) for RCD02WPVN

Status indicator shows Red
for ON, Green for OFF

RCD07MAVN & RCD08MPVN



5. Pack Contents

- 1x RCD Double socket
- 2x 3.5mm diameter fixing screws, 32mm long (RCD05WAVN, RCD06WPVN)
- 2x 3.5mm diameter fixing screws, 25mm long (RCD07MAVN, RCD08MPVN)
- 1x Warning label
- 1x Instruction manual
- 1x Metal Surface Box (RCD07MAVN & RCD08MPVN)

6. Installation

- The RCD should form part of a 30A ring main or terminate a spur off a 30A ring main. The cable connecting the supply to the RCD should be either: 2x 2.5mm² for the ring main or 1x 2.5mm for the spur.
- Make sure to tighten all screw terminals onto exposed wires.
- Ensure that there is both sufficient length of the supply cable tails(s) to enable easy wiring.

  Note: With some makes of BS4662 boxes it will be necessary to bend back the upper and lower fixing lugs to enable RCD to be fitted.

6.1 Ensure the mains supply is switched off and the circuit supply fuses are removed or the circuit breaker turned off.

6.2 Connect the incoming 230V 50Hz supply and outgoing load cables to the relevant terminals ensuring correct polarity is observed and that all bare conductors are sleeved (see section 7. Connection Diagram).

6.3 Finally secure the unit to the back box with the fixing screws provided, forming the cables during installation to avoid any entrapment and cable damage.
Do not over tighten.

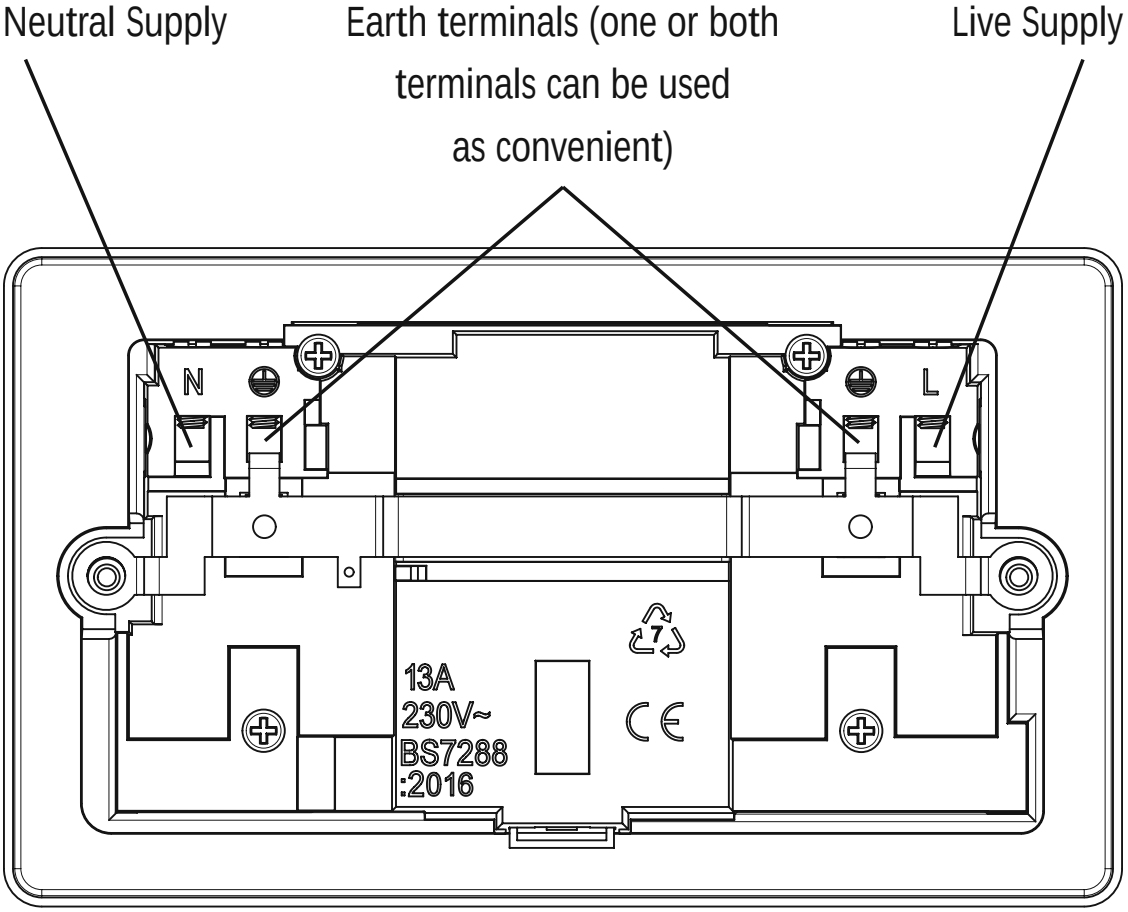
RCD07MAVN & RCD08MPVN Metal Clad Back Box

6.4 Note the correct orientation of the back box (the word TOP should be the correct way up).

6.5 Lock rings, with a maximum thickness of 4.2mm and a maximum diameter of 25.7mm must be used on the inside of the back box entries to secure the gland or conduit. The gland or conduit must not project into the back box beyond the lock ring, a male adapter should be used within the back box along with a female coupler on the outside to terminate the cable glands or conduit.

7. Connection Diagram

The terminals are marked as follows on the rear of the units;



230V 50Hz Mains Supply

Live Supply (Brown or Red) to	**L**
Neutral Supply (Blue or Black) to	**N**
Earth (Green/Yellow) to	⏚

8. General RCD Operation

Note: Always test the RCD before use

To Test

8.1 **RESET** – Press the Grey/Blue Reset button marked (R), the status indicator should show Red.

8.2 **TEST** – Press the Red Test button marked (T), the status indicator should show Green. This indicates the RCD had been tripped and power has been disconnected.

8.3 **RESET** – Press the Grey/Blue Reset button marked (R) again, the status indicator should show Red.

- If all the above operations work satisfactorily, the RCD is safe for use.
- If the procedure is not completed satisfactorily, **DO NOT** use the RCD and see professional advice.
- In applications such as hand driers it may not be practical to expect each user to test before use. In this case we suggest an appropriate person applies the test routine twice a day.

To Use

- After satisfactorily testing the RCD, any connected appliance may be switched ON, and used in confidence that the use is protected from electric shock by rapid disconnection.

If the RCD Trips

- Turn the appliance switch OFF, press the Grey/Blue Reset (R) button and note that the status indicator turns Red. Switch the appliance ON and of the RCD trips again, switch OFF the appliance and **DO NOT** use it, as it may be faulty. Seek professional advice.

If you experience problems, do not immediately return the unit to the store.
Telephone the Timeguard Customer Helpline;

HELPLINE

01582 544 548

or email helpline@timeguard.com

Qualified Customer Support Co-ordinators will be on-line to assist in resolving your query.

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67.058.610 INS 0811 V2.0 08/2024