Module (18mm) 1 Pole Combination Residual Current Device and Miniature Circuit Breaker
4RCBE Series

Installation Instructions

1. Fit the RCD/MCB as required into the consumer switchboard.
2. Black Neutral fly lead must be connected to the main Neutral link.
3. Load connections are made to the outgoing terminals marked 'L LOAD' and 'N LOAD'.
4. Correctly connect line and load as marked to prevent damage to the unit.
5. High voltage insulation testers (meggers) must not be used with the unit in circuit. Disconnect the RCD/MCB prior to this testing.

Applications
4RCBE Series suitable for installation into:
- 4C--M SERIES
- 4CW--M SERIES
- 4C6
- 4CC9
- 4C6FD*
- 4C11FD*
- 4C17FD*
- 4C24FD*
- 4CW24*
- 4CW36*
- 4FC11FD*
- 4FC17FD*

*WARNING: Suitable wiring space limited on top side of 4RCBE.

TO RCD PROTECTED CIRCUIT

Neutral Supply Lead

Load Active 'L LOAD'

Load Neutral 'N LOAD'

L LINE

Black Fly Lead

Main Neutral Link

4RCBE1

Diagram showing connection points:
- N
- LOAD
- T
- E
- Supply
## Electricians’ on site fault finding guide

Remember to test regularly. RCDs should be tested monthly by operating their in-built “test” button. You should remind the customer of this.

When you talk to the customer, find out what appliances were in use when the RCD tripped.

### When the RCD tripped

1. Bridge and clamp test (RCD in off position). (See notes A and B)

   - **NO** Is reading equal to 100% of load current?
   - **YES** Neutral and Earth swapped at connections or Neutral running via alternate circuit

2. Find and clear fault to obtain a reading below 5mA

   - **NO** Reset RCD
   - **YES** Bridge and clamp test (RCD in off position). (See notes A and B)

3. Connect or turn on each appliance one at a time in turn

   - **NO** Are all readings below 5mA?
   - **YES** Faulty appliance likely. Test each appliance, e.g. using 498D and Appliance Tester. Use unprotected appliance, e.g. using 489D and Appliance Tester. Use unprotected

   - **NO** Is any reading above 5mA?
   - **YES** Faulty RCD most likely - replace RCD

   - **NO** Is reading approximately equal to 50% of load current?
   - **YES** Faulty appliance likely. Test each appliance, e.g. using 498D and Appliance Tester. Use unprotected appliance, e.g. using 489D and Appliance Tester. Use unprotected

4. **NO** Bridge and clamp test (RCD in off position). (See notes A and B)

   - **YES** Faulty RCD most likely - replace RCD

### Diagram

- **RCD trips**
- **RCD holds in?**
- **Reset RCD**
- **Unplug all appliances**
- **Perform “Press to Test” function to check operation**
- **Is reading below 5mA?**
- **Is reading equal to 100% of load current?**
- **Bridge and clamp test (RCD in off position). (See notes A and B)**
- **Faulty RCD most likely - replace RCD**
- **Faulty appliance likely. Test each appliance, e.g. using 498D and Appliance Tester. Use unprotected appliance, e.g. using 489D and Appliance Tester. Use unprotected**
- **Is any reading above 5mA?**
- **Is reading approximately equal to 50% of load current?**

### Warranty

1. The benefits conferred herein are in addition to and in no way shall this warranty be deemed to derogate, either expressly or by implication, from all other rights and remedies in respect of the 4RCBE Series, which the consumer has under the Trade Practices Act (Commonwealth) or any other similar State or Territory Laws.

2. The Warrantor is Clipsal Australia Pty Ltd of 33 - 37 Port Wakefield Road, Gepps Cross, South Australia 5094. With registered offices in all Australian States.

   - **Contact your state branch on 1300 2025 25.**

3. The 4RCBE Series products are guaranteed against faulty workmanship and materials for a period of one (1) year from the date of installation.

4. Clipsal Australia Pty Ltd reserves the right to determine whether to repair or replace any faulty product free of charge for parts and labour or to give a refund in respect of the faulty product.

5. This warranty is expressly subject to the 4RCBE being installed, wired, tested, operated and used in accordance with the manufacturer’s instructions.

6. Should the product (the subject of the claim) be found to be in good working order all costs of the claim shall be met by the manufacturer.

7. When making a claim the consumer shall forward the 4RCBE to the nearest office of Clipsal Australia Pty Ltd together with supporting documentation.

### Additional Information

- **NOTE A:** Bridging of combination RCDs with overcurrent protection negates that function and may result in fusing the main fuse with faulty wiring. Note that in these instances, fault currents could be significantly higher and therefore suitable precautions should be taken.

- **NOTE B:** Under no circumstances should the “Press to Test” function be utilised while an RCD is bridged.

- **NOTE C:** Insulation breakdown could be alternatively identified by using the Clipsal 491 Insulation Tester.