

1 About Your Safety Switch

Portable Safety Switch's fast cut-out makes the risk of electrocution negligible.

This portable Safety Switch is ideal for use in indoor and outdoor locations.

Its heavy duty construction makes it ideal for use around the house, patio area, workshop, garage, garden or any place where an electrical tool or extension cord would normally be used.

The R5102/1 can also be used in damp and wet conditions.

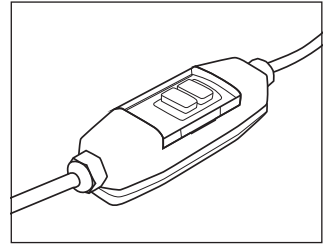
How does it work?

The device constantly monitors the balance of the current flow in both active and neutral wires of the tool and lead being used.

If an imbalance occurs, as it would if the tool became faulty and current leaked to earth (possibly through the body of the user), the portable Safety Switch would detect this imbalance and immediately cut off the power before a fatal amount could pass.

The loss of current to earth needs only to be 30 milliamps (thirty thousandths of an amp) for the portable Safety Switch to respond by immediately cutting off the power. The time that a person is exposed to an electric shock is a crucial factor in determining the severity of the accident.

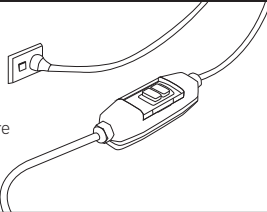
That's where the HPM portable Safety Switch is a life saver... because it switches the power off in typically 30 milliseconds (thirty thousandths of a second) – substantially reducing the risk of electrocution.



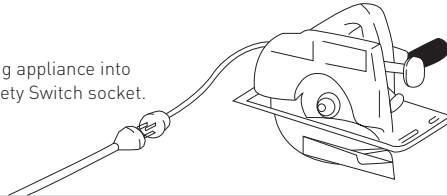
2 Operation

TEST BEFORE EACH USE

Plug into powerpoint.
Test RCD before each use.



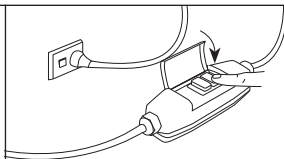
Plug appliance into Safety Switch socket.



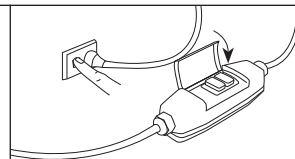
TESTING INSTRUCTIONS

WARNING: TEST BEFORE EACH USE

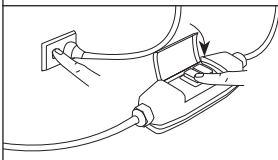
If the unit fails to trip when the test button is pressed (red indicator fails to disappear); or fails to reset (red indicator fails to appear); DO NOT USE.



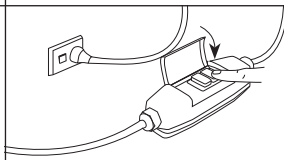
1. Plug into powerpoint and switch power on. Press and release 'RESET'. Verify red indicator is visible ('On').



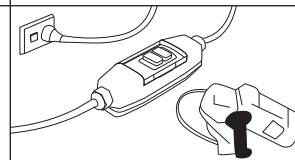
2. Switch powerpoint off. Verify red indicator disappears ('Off').



3. Switch powerpoint on and reset. Verify red indicator is visible ('On'). Press 'TEST' button. Verify red indicator disappears ('Off').



4. Press and release 'RESET' button. Verify that the red indicator reappears through plastic window. (Red indicator denotes that output power is available.)



5. Power is now available to the appliance. Plug appliance in, switch on and operate equipment normally.

3 Caution

- If the unit repeatedly trips with a particular appliance, or if it fails to trip when tested according to the instructions, seek advice from an electrician.

DO NOT CONTINUE TO USE THE SAME APPLIANCE WITHOUT THE SAFETY SWITCH AS A REAL SHOCK HAZARD MAY EXIST.

- If using in conjunction with an extension lead ensure the Safety Switch plug is plugged into the powerpoint and the extension lead is plugged into the cord extension socket of the safety switch (not the other way around as the extension lead would not be protected).
- This device is to be used on normal electrical distribution systems 230–240V a.c. 50Hz only.
- This device protects against electric shock from faults to Earth through the body. It does not protect against faults between Active and Neutral.

- Do not directly expose the plug and cord extension socket to the rain.
- **Do not immerse in any liquid.**
- If Safety Switch is dropped, test to ensure correct function.
- Test frequently and before each use to ensure correct operation.
- Electricity can be dangerous. The use of a Safety Switch is not a substitute for basic electrical safety precautions. The R5102/1 and R2810CLRCD is designed as a protective device. Do not use as an ON/OFF switch. Unplug equipment to achieve isolation before any inspection or repair of equipment is attempted.
- Not suitable for use with generators – damage may occur.
- Opening voids warranty.

4 HPM Electresafe Portable Safety Switches

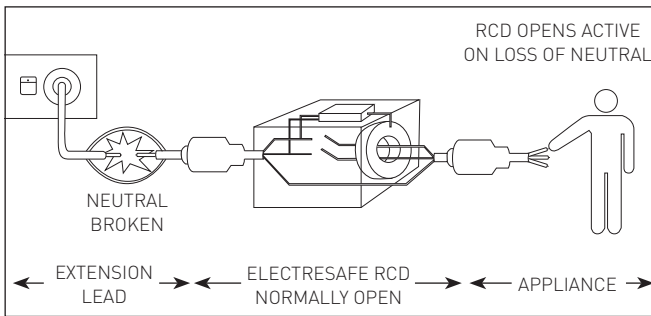
Extension leads are involved in a large number of fatalities due to wires becoming disconnected inside the plug or extension socket, or by damage and exposure of live wires. As an RCD cannot protect upstream, no extension leads should be used between the powerpoint and the RCD.

However, in some circumstances the supply to the RCD may be faulty. The neutral supply can be lost, but the live active still present.

If contact is made with the live active, a fatality may occur.

A 'normally closed' RCD will allow this to happen downstream from the RCD as its tripping requires both active and neutral supply.

HPM Electresafe units are 'normally open' and will trip on the loss of either active or neutral, disconnecting both active and neutral downstream. This complies with the Type FS requirement in AS/NZS 3190.



5 Specification

Class H, Type FS

d.c. pulse sensitivity

Voltage: 230–240Vac 50Hz

Max Load: 10A 2400W

Rated residual current: 30mA

Typical tripping time: 30mS

IP rating: IP66



Warranty

HPM Legrand will honour all statutory guarantees that you as a consumer are entitled to rely upon under the Australian Consumer Law against a manufacturer including a guarantee that products are of acceptable quality. To make a claim under any statutory guarantee (or other warranty) you should first contact the supplier, contractor or retailer from whom you purchased the products.

Customer Service

For all Customer Service and Technical Support please call Monday to Friday during business hours.

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