

RCD FUSED CONNECTION UNIT

Model: TFP10WL

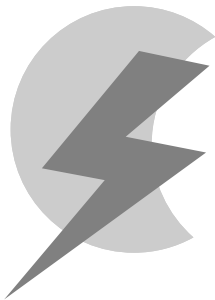
RCD SINGLE & DOUBLE SOCKETS

Single Models:

TFA01W, TFP02WL, TFA03M, TFP04ML

Double Models:

TFA05W, TFP06WL, TFA07M, TFP08ML



INSTALLATION & OPERATING
INSTRUCTIONS

General

The Timeguard range of RCDs provides protection against fire hazard and rapid double pole disconnection from electric shock for the appliance and cable connected to it. They comply fully with BS7288 and BS1363. They are designed to mount on either a BS4662 recessed box or a BS5733 surface mount box (plastic versions only).

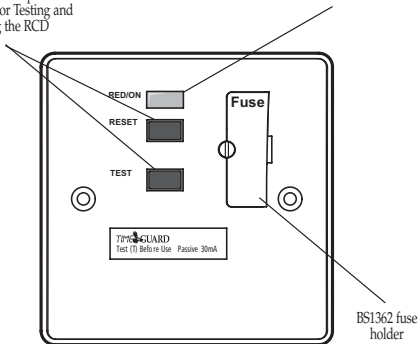
Note: RCD – Residual Current Device.

RCD Fused Connection Unit

Model: TFP10WL

Colour coded positive action buttons for Testing and Resetting the RCD

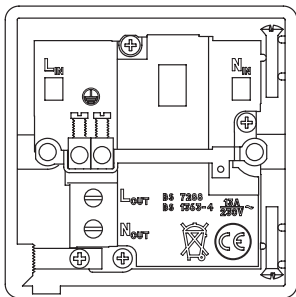
Status indicator shows red for 'ON'



The RCD fused connection unit is a latching (passive) version. If set, this will retain closed contacts if the mains supply is interrupted – essential for applications such as freezers.

Pack Contents

- 1 TFP10WL
- 2 3.5mm diameter screws 32mm long
- 1 Warning label
- 1 Instruction leaflet



Fused Connection Unit Connections

Supply Brown (Red) (Live) to L IN

Supply Blue (Black) (Neutral) to N IN

Supply Bare Earth Wire, sleeved Green/Yellow, to E ⊕

Load Brown (Live) to L OUT

Load Blue (Neutral) to N OUT

Load Green/Yellow (Earth) to E ⊕ (one or both terminals can be used as convenient)

RCD Single & Double Sockets

Single: TFA01W, TFP02WL, TFA03M, TFP04ML

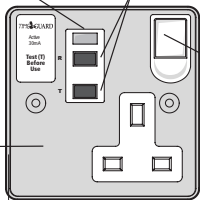
Double: TFA05W, TFP06WL, TFA07M, TFP08ML

Single Metal Socket

Status indicator shows red for 'ON'

Colour coded, positive action buttons for Testing (T) and Resetting (R) the RCD

Metalclad construction giving the best protection against physical damage



Switched for convenience and extra safety

Double Socket

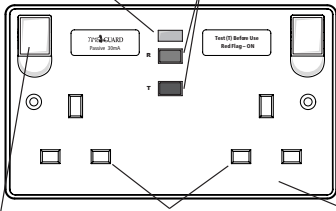
Status indicator shows red for 'ON'

Colour coded, positive action buttons for Testing (T) and Resetting (R) the RCD

Switched for convenience and extra safety

RCD unit protects both socket outlets

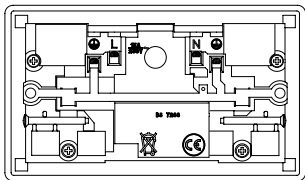
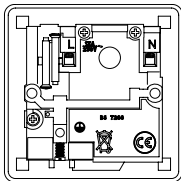
Fully meets the BS1363 current rating



The RCD socket units come in two forms, a latching (passive) version with the third letter set to 'P' (passive) and the last letter 'L' in the type number and a non-latching (active) version which has the third letter set to 'A' (active). 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.

Pack Contents

- 1 TFA01W, TFP02WL, TFA03M, TFP04ML, TFA05W, TFP06WL, TFA07M or TFP08ML
- 2 3.5mm diameter screws, 35mm long
- 1 Warning label
- 1 Instruction leaflet
- 1 Metal surface box (TFA03M, TFP04ML, TFA07M, TFP08ML only)



Socket Connections

Supply Brown (Red) (Live) to L

Supply Blue (Black) (Neutral) to N

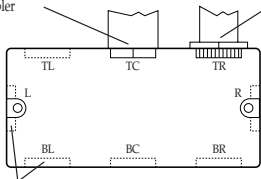
Supply Bare Earth Wire, sleeved Green/Yellow, to E \oplus (for double sockets one or both terminals can be used as convenient)

Metal Clad

Lock rings, with a maximum thickness of 4.2mm and a maximum diameter of 25.7mm must be used on the inside of the box on TL (top left) and TR (top right) entries to secure the gland or conduit. The gland or conduit must not project into the box beyond the lock ring. A male adaptor should be used within the box on TC (top centre) and BC (bottom centre) entries along with a female coupler on the outside to terminate cable glands or conduit.

Cable gland or conduit entry in TC or BC using a male adaptor with a female coupler

Cable gland or conduit entry in TL or TR using a lock ring inside the box



20mm knockout positions

View of inside of RCD socket outlet back box

General RCD Instructions

The RCD should form part of a 30A ring main or terminate a spur off a 30A ring main. The cable connecting to the supply to the RCD should be either: 2 x 2.5 sq mm for the ring main or 1 x 2.5 sq mm for the spur.

TFP10WL only – Fit the appropriate BS1362 fuse to suit the load appliance to be connected.

The cable connecting the load appliance (spur only) should be rated according to the fuse fitted to the connection unit.

Strip sleeving and insulation and cut wires as required for the appliance cable. Tighten the screw terminals onto the exposed wires maintaining the correct polarity, then fit the cable into the cable clamp groove and tighten down the clamp box to retain the cable.

All RCDs – Ensure that there is sufficient length of the supply cable tail(s) to enable easy wiring. Strip sleeving and insulation and cut wires as required. Tighten the screw terminals onto the exposed wires maintaining correct polarity and offer the unit up to the wall box, forming the cable as required. Screw RCD to wall box and tighten sufficiently to hold in place. Do not over tighten.

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

General RCD Operation

Always test the RCD before use.

To test:

RESET – press the grey/blue button marked Reset (R), the status indicator should show red.

TEST – press the red button marked Test (T), status indicator should show black. This indicates that the RCD has been tripped and power has been disconnected from the outlet.

RESET – press the grey/blue button marked Reset (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 seek 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 the confidence that the user is protected from electric shock by rapid disconnection.

If the RCD trips:

Turn the appliance switch off, press the Reset (R) button and note that the status indicator turns red. Switch the appliance on and if the RCD trips again, switch off the appliance and do not use it, as it may be faulty. Seek professional advice.

General RCD Specifications

Voltage:	230V AC 50Hz
Max Current:	Fully complies with the current rating required by BS1363
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 Temperature Range:	-5° to 40°C
Trip Speed:	Less than 40msec at 150mA residual current
Fully Complies With:	BS7288 & BS1363
Minimum Box Depth Required:	25mm
Fixed Cable Capacity:	1 x 8mm ² or 2 x 4mm ² or 3 x 2.5mm ²
Flexible Cable Capacity: (TFP10WL only)	10.5mm diameter maximum

Safety Issues to Remember

- 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.

Wiring Tests - Important

Remove this product from 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 warning label to ensure this is carried out.

THREE YEAR



GUARANTEE

3 Year Guarantee

In the unlikely event of this product becoming faulty due to defective material or manufacture within 3 years of the date of purchase, please return it to your supplier in the first year with proof of purchase and it will be replaced free of charge.

For the second and third years or any difficulty in the first year telephone the helpline on **020 8450 0515**.

HELPLINE
020-8450-0515



For a product brochure please contact:

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020-8452-1112

or email csc@timeguard.com

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