



## Declaration of confirmation

We, Klinger & Born GmbH ,In den Schlangenäckern 5, 64395 Brensbach declare in sole responsibility, that the product

Residual current protective device with zero voltage release,  
Art.-No. 4705.0012 Version „Fi-L“

which this declaration corresponds to, is conform with the following engineer standards or normative documents:

HD 639 S1:2002+A1:03  
VDE 0620-1:2005  
IEC 60884-2-5:1995  
IEC 60884-1:2002

The terms of these directive(s) apply:

Niederspannungsrichtlinie 2006/95/EG  
EG-EMV-Richtlinie 2004/108/EG

## Residual current protective device with zero voltage release

**Art.-No. 4705.0012 Version “Fi-L”**

## Operating instructions

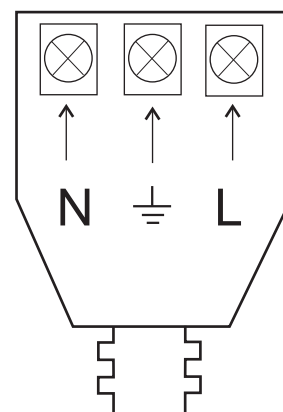


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## Connection:



Dear customer.

Thank you very much for buying this product.

This product meets the demands of the valid European and national guidance. The CE compliance is proven. The relevant documents are stored at the producer's side. To conserve the delivery conditions of the product and ensure a safe operation, you must read these operating instructions. Please consider all operation and security references!

## Shipment

- Residual current protective device
- Operating instructions

## Safety instruction must be considered!

These operating instructions belong to the product and contain important references for start-up and operation. Please pay attention hereupon also when passing the product to a third party.

Make sure that you don't lose this operating instruction and store it at a secure place.

## Safety instructions

**This residual current protective device is equipped with a test key. An operational check of the test key should be done before start-up and in regular time intervals (at least once a week). If the residual current protective device doesn't operate according to specification operator protection doesn't apply! The device must be replaced immediately! Damages caused by non-observance of this operating instruction lead to warranty void. For subsequent damage we disclaim liability.**

- For security and licensing reasons (CE) unauthorised remodelling and/or modifying the product is not allowed. Don't disassemble the product.
- This product is not suitable for children. Children cannot estimate the risks using electric devices. When children are present act with particular caution.
- The product setup corresponds to security class 1. As voltage source only an orderly mains socket with protective conductor (230V~/50Hz) must be used provided by the public power supplier.
- Commercial facilities have to notice the accident prevention regulations of the commercial workmen's compensation board association for electrical installations and equipment.
- In schools, education facilities, hobby and self help workshops this product may only be operated when qualified staff is on-site.
- Handle the product with care. Hits, beats or falling down damage it.
- Never operate the product directly after it was carried from a cold into a warm room. Condensate may damage it. Wait until the product has reached room temperature before it is connected with mains voltage. This may take hours.
- Don't touch the product with humid or wet hands.
- Make sure that the insulation of the entire product is neither damaged nor destroyed.

**Before using the product make sure that it isn't damaged. If you determine damage the product must not be connected to the mains voltage! Danger to life!**

- If you don't use the product for a longer time, unplug it from mains voltage.
- Avoid the following ambient conditions at the installation site or during transport:

- Wetness or to high humidity
- Extreme cold or heat
- Dust or flammable gas, vapours or solvent
- Strong vibrations
- Strong magnetic fields like close to machines or speakers

## Connection

The connection to the end device must only be done by educated professionals and unplugged mains plug. Therefore open the lid and inset the connection lead through the grommet. Take care that the cable grommet seals the connected cable proper. After that mount the strain relief clamp with the enclosed screws (2.9x12mm) connect the strands with end sleeves as marked at the bottom (connection in the middle=earth, see connection diagram on side 2 of this manual). Then close the lid and fix it with the 2 screws.

Plug in the device. After actuating the orange reset button the device is ready for operation. Before operating please check the triggering by actuating the red test button (as described in chapter „Operation“)

## Maintenance and cleaning

The product is maintenance free for customers. Never disassemble it. There are no parts inside the product that need to be maintained. Furthermore permission (CE) and warranty expire.

**Before cleaning unplug the residual current protective device from the external power supply**

- After this you can clean the product with a clean, dry, soft and fluff free cloth. For heavy dirt you can slightly wetting the cloth with tepid water
- Never use solvent-containing detergents. The plastic housing and the label may get damaged.

**Wait until the residual current protective device is totally dry again before you connect it to the power supply. Otherwise you risk a perilous electric shock.**

## Removal

- Ensure that you dispose the product according to the applied legal regulations

## Operation (only for private use)

- Plug in the residual current protective device into the plug socket
- Press the orange reset key. Operational readiness is indicated by a red symbol in the window.
- Now press the red test key. This simulates a residual current. If operating accordingly the residual current protective device disconnects the plug socket from the mains supply. If so the red light in the window switches off.
- Only when operating accordingly protection applies for humans and animals
- For operation press the reset key again.

## Features and technical data

Breaking current:	< 30 mA
Power supply:	230 V~/50 Hz
Load capacity of the integrated socket plug:	16 A (3680 W)
Number of poles:	2-poles switched
Own consumption:	approx. 15 mA
Pre-fuse:	16 A
Degree of protection:	IP 54
Dimensions:	105x50x91 mm

## Intended use

The mobile residual current protective device with zero voltage release is designed for construction areas as well as for works in the household and garden. It is simply plugged between the power supply and the device and offers an optimum of protection when touching energized parts and by restart of machines after voltage recovery.

## Typical sample applications

### Workshop

Drilling machines, circular saws, soldering irons, soldering stations, other electric appliances

### Household

Washing machines, dryers, dishwashers, electric irons, hairdryers, dryer hoods, vacuum cleaner, kitchen machines, toasters, waffle irons, toys, model railways, metal parking lamps, water treatment plants, heaters, and much more.

### Garden

Mowing machines, hedge trimmers, trimmers, saws, scarifiers, garden pumps, plug sockets for outdoor areas

### Aquaristics

Lights, heating elements, infrared lamps, pumps and filter systems