



Declaration of conformity

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. 4705.0025
Art.-No. 0001.5025 (with AC power line)
Art.-No. 4705.0027
Art.-No. 0001.5027 (with AC power line)

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

Version "Fi-PD20.. / Fi-PD22.."

Operating instructions



For any questions contact our technical consultants:

Klinger & Born GmbH
In den Schlangenäckern 5
D-64395 Brensbach
Phone +49 (0) 6161 - 9309 - 0
Fax +49 (0) 6161 - 9309 - 10
Internet: www.klibo.de
E-Mail: info@klibo.de
Mo to Fr 8.00 am to 16.15 pm

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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 if 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 unscrew both cover screws at the backside of the housing. Open the cover (might be a little bit tricky, when the seal sticks) remove the strain relief clamp and insert the connection leads through the grommet. Make sure that the mains lead is mounted to the side labeled with „IN“ and the output line to the side labeled with „OUT“. The phase is connected to the pin „1“, the neutral wire to the pin „2“ and the earth wire to the pin labeled with the earthing symbol. After that mount the strain relief. Make sure that the cable insulation overlaps 2 mm inside of the housing. Close the cover and tighten both fixing screws. The cover is protected against wrong mounting.

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.
- Now the appliance can be connected.

Features and technical data

Breaking current:	PD20A/PD22A < 30 mA PD20B/PD22B < 10 mA
Power supply:	230 V~/50 Hz
Load capacity:	16 A (3680 W)
Number of poles:	2-poles switched
Own consumption:	approx. 7 mA
Pre-fuse:	16 A
Degree of protection:	IP55
Dimensions:	149x49x48,2mm

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