

# VOTRONIC

## Installation and Operating Manual

**Residual Current Circuit Breaker RCBO 16-30 Mini**

**No. 2151**

**Residual Current Circuit Breaker RCBO 16-30**

**No. 2152**



Only an authorized specialist for electrical engineering is allowed to execute the connection 230 V (in Germany according to VDE0100, Part 721 or IEC 60364-7-721).



Please read the operating manual of the Residual Current Circuit Breaker thoroughly prior to connection and start-up.

Residual current circuit breaker for personal protection with automatic circuit breaker 1+N-poles and integrated fault current breaker for optimum protection of the 230 V system in vehicles.



### **Safety Regulations and Appropriate Application:**

The residual current circuit breaker has been designed according to the valid safety regulations.

**Appropriate application is restricted to:**

- 1. Technically faultless condition.**
- 2. Installation in rooms being protected from rain, humidity, dust, aggressive battery gas, as well as in an environment being free from condensation water.**
  - **Never use the unit in locations where the risk of gas or dust explosion exists!**
  - Cables are always to be laid in such a way that damage is excluded. Observe to fasten them tightly.
  - Never lay 12 V (24 V) cables and 230 V mains supply cables into the same cable conduit (empty conduit).
  - Check live cables or leads periodically for insulation faults, points of break or loosened connections. Defects must be remedied immediately.
  - If the user is not able to draw from the manual, which characteristic values are valid for a unit or which regulations are to be observed, a specialist is to be consulted.
  - The user / buyer is responsible for the observation of construction and safety regulations of any kind.
  - **The unit is not equipped with parts, which can be replaced by the user.**
  - **Keep children away from the residual current circuit breaker.**
  - Non-observance may result in injury or material damage.
  - The warranty period is 36 months from the purchase date (against presentation of the sales slip or invoice).
  - The guarantee will be void in case of any inappropriate utilisation of the unit, if it is used beyond the technical specification, in case of improper operation, **intrusion of water** or external intervention. We do not assume any liability for any damage resulting hereof. The liability exclusion is extended to any service being executed by third, which has not been ordered by us in writing. Service is to be effected exclusively by VOTRONIC Lauterbach.

## Installation:

Firmly install the residual current circuit breaker near the der 230 V supply, choosing a solid and dry place in the vehicle. Remove the upper housing and firmly fasten the housing bottom using suitable screws.



**After installation of the residual current circuit breaker, the provided yellow label for the function test must be stuck near the residual current circuit breaker on a well visible location!**

## Connection:



Only an authorized specialist for electrical engineering is allowed to execute the connection 230 V (in Germany according to VDE0100, Part 721 or IEC 60364-7-721). Always switch off the 230 V power supply prior to connection of the residual current circuit breaker, and never switch it on, before the installation is completed. Non-compliance results in danger to life!

### Connection Cables:

Only use suitable PVC hose lines according to VDE 0281, part 5, or IEC 227 53 with a minimum cross-section of 3 x 2.5 mm<sup>2</sup>.

## Start-up:

As soon as the housing is firmly fastened, the cables have been connected and the upper housing is installed, the residual current circuit breaker is ready for use. Execute a function test!

## Function Test:

Press the yellow test button when the 230 V operating voltage is applied. The ON/OFF switch must release and go to the lower tilt position. The power supply is interrupted and the ON/OFF display is green.

When switching the ON/OFF switch to upper position, the power supply will be reconnected and the ON/OFF display is backlit in red. **Execute the function test once a month!**



**Actuate the test button once a month! The switch must switch-off immediately.**

Technical Data:	Residual Current Circuit Breaker RCBO 16-30
Automatic Circuit Breaker:	230 V AC / 16 A
Residual Current Disconnection:	30 mA
Type of Residual Current:	A
Energy Rating Class:	3
Release Characteristics:	B
System of Protection:	IP 2X (Combined Switch FI/LS) IP 40 (Industrial Housing)
Dimensions Mini (WxHxD):	100 x 140 x 100 mm
Dimensions (WxHxD):	140 x 140 x 100 mm
Weight:	470 g



The product must not be disposed of in the household waste.



The product is RoHS compliant. It complies with the directive 2015/863/EU for Reduction of Hazardous Substances in electrical and electronic equipment.

**Quality Management System**  
DIN EN ISO 9001



### Recycling:

At the end of its useful life, you can send us this device for professional disposal: You can find more information about this on our website at [www.votronic.de/recycling](http://www.votronic.de/recycling)



IEC / EN 61009

### Delivery Scope:

- Residual Current Circuit Breaker RCBO 16-30
- Installation and Operating Manual
- Adhesive Label for Function Test

Subject to misprints, errors and technical modification without notice.

All rights reserved. This material may not be published, broadcast, rewritten or redistributed in whole or part without the express written consent of the manufacturer. Copyright © VOTRONIC 03/2022.

Made in Germany by VOTRONIC Elektronik-Systeme GmbH, Johann-Friedrich-Diehm-Str. 2, 36341 Lauterbach/GERMANY  
Phone: +49 (0)6641/91173-0 Fax: +49 (0)6641/91173-10 E-mail: [info@votronic.de](mailto:info@votronic.de) Internet: [www.votronic.de](http://www.votronic.de)