

# Built-in Safety

Residual current devices by ABB



**ABB**

# Residual Current Devices – for ease of mind at home!

Residual current devices are efficient bodyguards for you and your family.

Safely protecting your loved ones from electrical accidents.

## Eliminating the danger – in a fraction of a second

Residual current devices automatically switch off the power in the event of a danger.

So how do they work?

Residual current devices continuously monitor and compare how much current flows into an electrical circuit, for example a household appliance, and how much current then flows out. If the level of current flowing back is lower, this means: A portion of the current has left the circuit the “wrong” way – for example via a person coming into contact with the defective device or live parts. The residual current device reacts immediately and switches off.

In contrast to this principle of differential measurement, the “regular” miniature circuit breakers installed in your home only react to electrical overload and short-circuits.

## Areas of application

Residual current devices are now compulsory in various parts of the house for new installations and modernization.

These include:

- socket outlets in rooms with high moisture levels (e.g. bathrooms)
- outdoor socket outlets
- indoor sockets which are used to power outdoor equipment

## Strongly recommended

We also recommend using residual current devices in sensitive areas or rooms where a higher than normal risk level exists, i.g., children’s bedrooms and hobby rooms.



Standard  
13A or 16A Miniature Circuit  
Breaker

Residual Current  
Device

**You should check residual current devices every six months by pressing the „Test“ button. The device must then switch off. A regular check of your electrical installation can be performed by your electrical installer.**



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