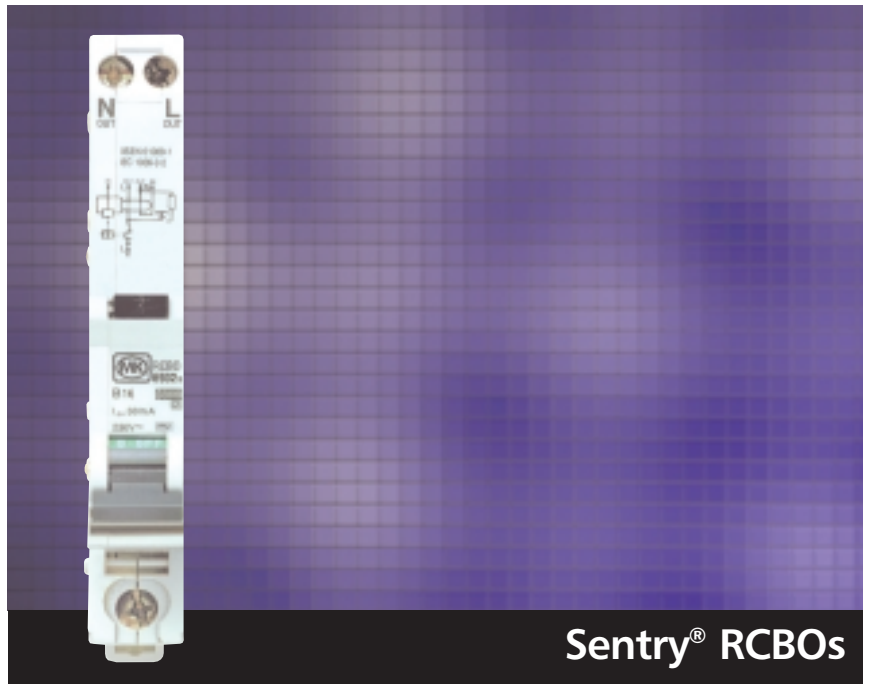


## Sentry

### Residual Current Breakers with Overcurrent Protection (RCBOs)

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Sentry® RCBOs

PRODUCT RANGE		
Rating	Tripping current	List No.
<b>RCBO</b>		
6A, 230V	30mA	6932s
10A, 230V	30mA	6933s
16A, 230V	30mA	6934s
20A, 230V	30mA	6935s
32A, 230V	30mA	6936s
40A, 230V	30mA	6937s
45A, 230V	30mA	6938s

### Description

The Sentry range features solid neutral type single pole RCBOs in one module format.

The one module Sentry RCBOs are a combination of a type B MCB and a Residual Current Device. This enables both overcurrent protection and earth fault current protection to be provided by a single unit.

This combination allows earth fault protection to be restricted to a single circuit, thus ensuring that only the circuit with the fault is interrupted. (When groups of circuits are protected by an RCD, all circuits would be interrupted under fault conditions, which may cause unnecessary inconvenience).

The operating dolly on all Sentry RCBOs may be locked in either the ON or OFF position without affecting the ability of the trip mechanism to operate.

The Sentry RCBO features tunnel terminals of generous capacity, with 25mm<sup>2</sup> for live supply and 10mm<sup>2</sup> for live and neutral load terminals. The neutral supply, (blue) and earth supply (white/cream) are provided via flying leads.

### Mode of operation

As the RCBO is a combination of an MCB and RCD, reference should be made to the relevant technical information regarding these devices.

### Standards and approvals

All Sentry RCBOs are designed to fully comply with the relevant requirements of BS EN 61009-1, BS IEC 61009-2-2, BS 61543 for EMC.

The RCBOs feature positive contact status indication in accordance with 16th edition IEE Wiring Regulations (537-02-03 and 537-03-02).

### Features

- Meet BS, BS EN and IEE Wiring Regulation requirements
- Allows both overcurrent and earth fault protection and detection
- Available in a range of current ratings
- Tunnel type terminals
- Generous terminal capacity
- Positive contact status indication

**Sentry**

**Residual Current Breakers with  
Overcurrent Protection (RCBOs)**

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**TECHNICAL SPECIFICATION**

**Electrical**

Operating voltage:  
230V AC

Operating frequency:  
50Hz

Short circuit breaking capacity:  
6,000A (M6)

Service short circuit capacity:  
6,000A

Type A (a.c. as well as pulsating d.c.)

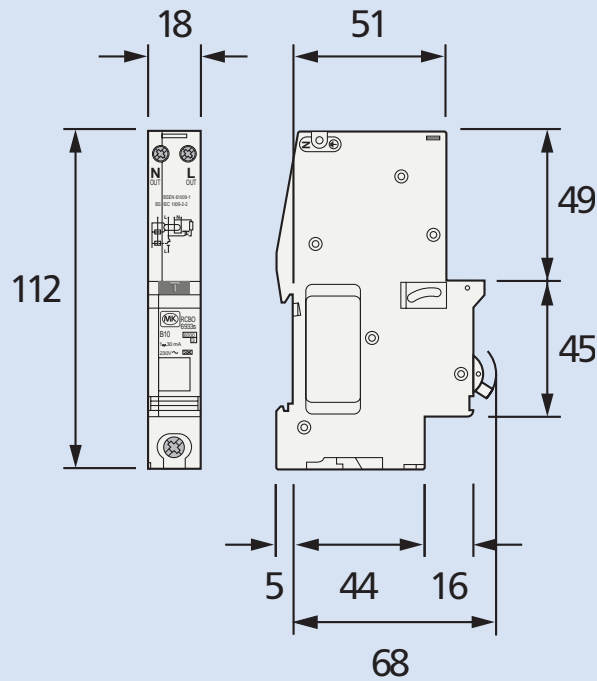
**Physical**

Ambient operating temperature:  
-25°C to +40°C

IP rating:  
Front face IP4X, screw IP2X

Max. installation altitude:  
2000 metres

**Dimensions (mm)**



**Installation**

The Sentry RCBOs may be installed anywhere along the length of the busbar and will occupy one outgoing way.

Selection of the most suitable RCBO should take into account the following considerations:

**1. Operating voltage and frequencies**

**2. Fault breaking capacity**

For applications where the prospective fault current is in excess of this, a BS 88, 100A (maximum) fuse should be used upstream of the RCBO to provide a system breaking capacity of 20,000A.

**3. Cable protection**

The current carrying capacity of the cable should always exceed the current rating of the RCBO, to prevent damage. However, should this not be the case, a further calculation may show that the RCBO can still interrupt the current in a sufficiently short time to prevent overheating of the cable insulation. Although this will prevent mechanical damage to the cables, further overload protection should be provided by a separate device, e.g. a motor overload relay.

In case of doubt please contact the MK Technical Sales and Service Department.