

## RCBO application

Connection of Unidirectional and Bidirectional Residual Current Devices (**RCBs**) and Miniature Circuit-Breakers (**MCBs**) to power supplies e.g. battery storage, Photovoltaic (**PV**) systems, Electric Vehicles (**EV**) to home, a micro-generator, or grid (**mains**) supply.

The electrical inspector/electrical installation duty holder is responsible for making the decision on any required action and related time scales. Hager suggests that based on the potential safety issues raised in the **BEAMA** bulletin, it would appear that any incorrectly selected and installed RCBOs should be replaced with a suitable device.

The following information will assist in identifying any Hager RCBO that has been selected and installed incorrectly, together with the appropriate solution.

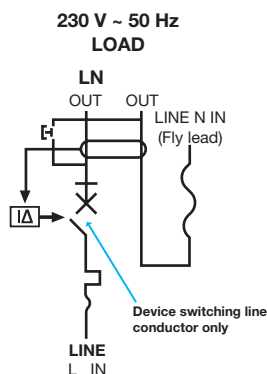
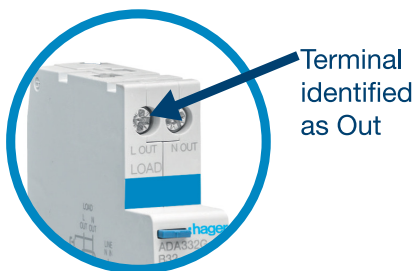
### Issue:

1. **RCBOs** that do not switch the neutral as required by **BS 7671 Regulation 551.7.1**.

A solid neutral is indicated in instructions or a diagram on the **RCBO**.

2. Unidirectional **RCBOs** with their outgoing/load terminals connected to a source of energy.

Unidirectional can be identified by line/load or in/out terminal marking on the device and also on the diagram.

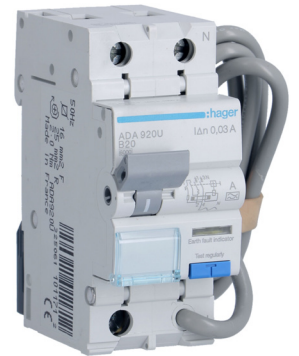


### Solution:

The **RCBO's** below are bidirectional and switch the neutral conductor. They can fit onto a standard Hager consumer unit busbar taking up either one or two ways.



ADC920R 1 Mod RCBO



ADA920U 2 Mod RCBO

