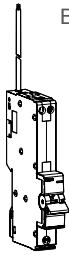


BS EN 61009-1 (GB)  
BS EN 62606



**ARRxxxU**  
RCBO with dangerous arc detection



ARR906U  
RCBO with dangerous arc detection  
1M 6A B 6kA

ARR910U  
RCBO with dangerous arc detection  
1M 10A B 6kA

ARR916U  
RCBO with dangerous arc detection  
1M 16A B 6kA

ARR920U  
RCBO with dangerous arc detection  
1M 20A B 6kA

ARR925U  
RCBO with dangerous arc detection  
1M 25A B 6kA

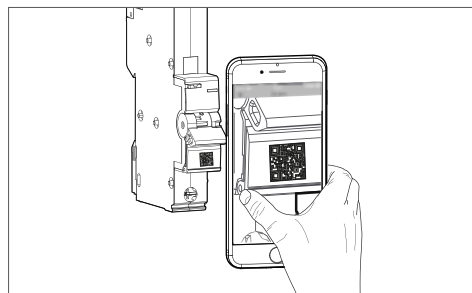
ARR932U  
RCBO with dangerous arc detection  
1M 32A B 6kA



### Information

For more Information, scan the QR-Code on the product.

For further technical information and for installation in Hager Distribution Board, review the Installation Guidance Notes available in the products download section on Hager website.



## Safety notice



The AFDD (Arc Fault Detection Device) may only be installed, connected and serviced by a qualified electrician.

Before mounting, the AFDD must be checked for external damage. If any damage or other defect is found, the device must not be mounted.

The national regulations, safety regulations and installation standards BS 7671 must be observed.

RCD characteristics 5 ldn compliance (according to table 1 & 2 BS EN 61009-1) for RCDs.

## Design and layout of the device

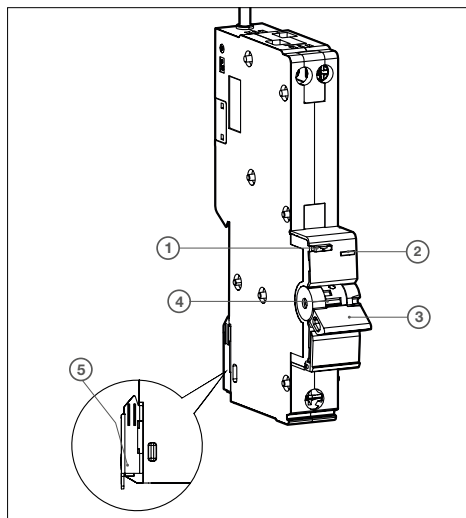


Fig 1: Layout of the device RCBO-AFDD

- ① Test button
- ② LED status display
- ③ Handle
- ④ Yellow flag
- ⑤ Mounting metal rail clip

## Function



RCBO-AFD in 1 module ARRxxxU is a single device consisting of a miniature circuit breaker (MCB) unit and residual current detection (RCD) unit with integrated Arc fault detection (AFD) unit (3 in 1).

The AFDD mitigates the risk of a fire in the final electrical circuits of a fixed installation due to arcing fault currents, which under certain conditions present a fire ignition risk due to dangerous arc fault.

## Tools

	LINE	LOAD
(mm <sup>2</sup> )	1 to 16 □	1 to 25 □
	12 mm	10 mm
	⊕ PZ2	⊕ PZ2
	3,5 Nm	2,4 Nm

Fig 2: Tools

## Information for electricians



## Installation and electrical connection



### DANGER !

Electric shock when touching live parts!

Electric shock can lead to death!

- Before commencing work ensure suitable isolation procedures have been followed.

### Mount device

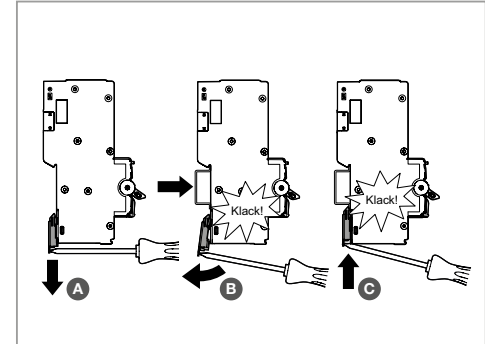


Fig 3: Mounting the RCBO-AFDD

- Open the rail clip.
- Insert the AFDD until it is connected.
- Press the metal clamp down.

The AFDD is fixed on the rail.

### Connect device

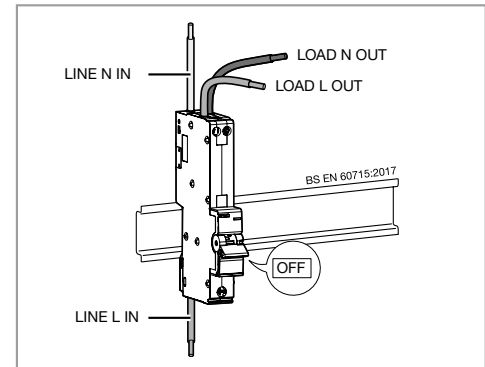


Fig 4: Connect the RCBO-AFDD

### Wiring diagram

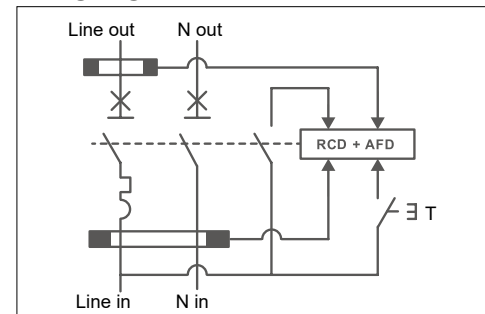


Fig 5: Wiring diagram

## Disassembly

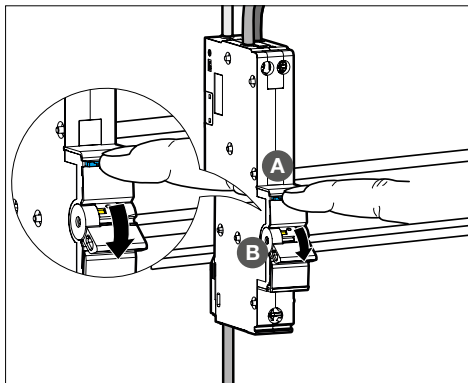
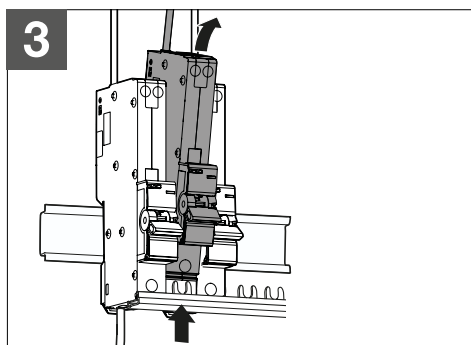
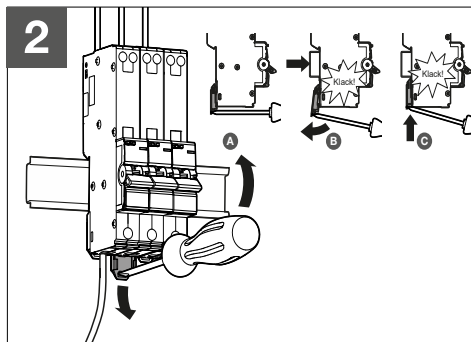
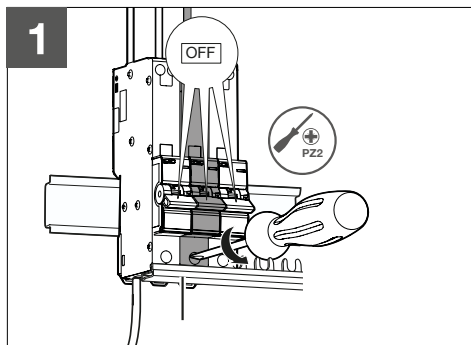


Fig 6: Testing the device

- Short press the test button **T**. The RCBO-AFDD tripped, i.e. the circuit must switch off.

**Notice**

If the AFDD does not trip, check the status of the LED (table 1).

### LED status for troubleshooting

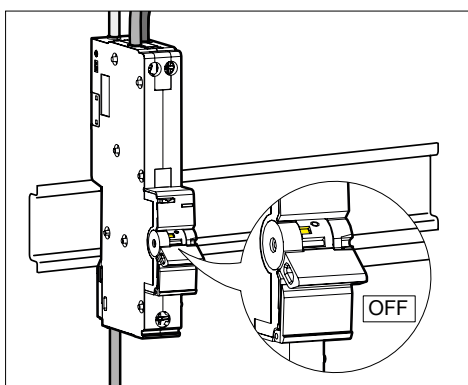


Fig 7: Handle position during testing: OFF  
The handle is in the **OFF** position.

- Keep the test button **T** pressed, to open the color code.

INDICATOR	STATE	
	Steady GREEN	AFDD is ON
	LED is OFF	AFDD is OFF
	Blinking RED/ GREEN + yellow flag absence	AFDD manual tripped
	Blinking RED/ GREEN + yellow flag presence	Overload or Short-Circuit
	Steady RED	Residual current fault
	Blinking RED/ YELLOW	Series arc fault
	Blinking RED	Parallel arc fault
	Steady YELLOW	Overvoltage
	Blinking YELLOW	Internal failure

Table 1: LED status display for a standard troubleshooting

**Notice**

In case of an internal failure, replace the AFDD and contact the Hager technical support.

## Connection to mobilephone

A mobile phone (iphone, operating with IOS14 or above, or Android, operating with Android 7 or above) is required to use those functions.

**Notice**

Using the connected functions with your mobile phone requires to activate network functions (Bluetooth, WiFi) and to accept the application terms of use & privacy notice.

Only bluetooth 4.2 or above is supported.

- Install the Hager Pilot mobile application on your mobilephone.
- Follow further instructions on the mobile application.

### LED status for Bluetooth® connection

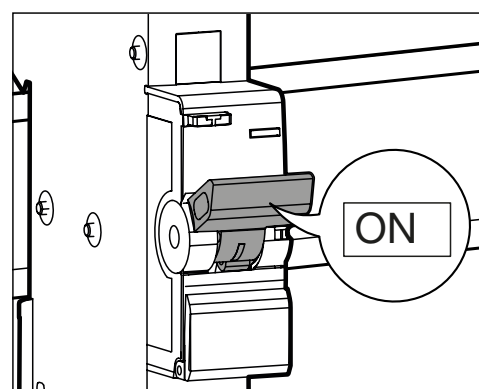


Fig 8: Handle during testing: ON  
The handle is in the **ON** position.

- Press the test button **T** for **5 seconds** to activate bluetooth mode.

INDICATOR	STATE	
	Blinking BLUE	Bluetooth enabled
	Steady BLUE	Bluetooth connected
	Blinking RED/BLUE	Update mode (only overload and short- circuit protection in this mode)
	Blinking BLUE/ YELLOW	Trace mode (use for technical Hager support)
	Blinking (BLUE/ GREEN)	Firmware update confirmation requested

Table 2: LED status display for Bluetooth® connection

## EU and UKCA Declaration

Hereby, Hager Electro SAS, declares that the AFDD products are in compliance with SI 2017/1206 Radio Equipment Regulations 2017 and with radio emission directive 2014/53/EU

- Operating frequency band 2.4 to 2.483 GHz.
- Maximum radio frequency power 10mW.

Declarations of conformity can be downloaded on [www.hager.com](http://www.hager.com)

## Testing

The test button **T** is used for testing the device. The AFDD should trip following a short press of the test button. Following this the device can be switched on again.

### Test device



#### ATTENTION !

Insulation tests at 500V DC may damage this product!

Do this test only when the handle is off.

If the handle is OFF you don't have to disconnect the cable.



#### Notice

The AFDD function must be tested after installation. The supply voltage must be present.

The RCBO-AFDD must trip within one second. If the device does not trip, it must be replaced by a competent electrician.