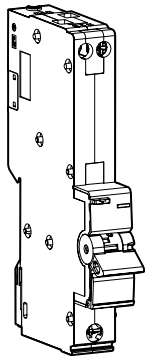
6LE008001Aa



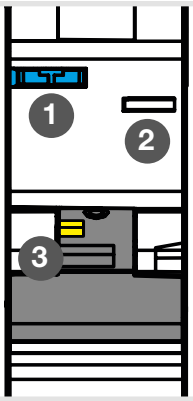
What to do if the **AFDD** has tripped?

RCBO-AFDD
MCB-AFDD

Customer: _____
Date: _____
Circuit: _____
Connected load: _____

⚠ The outgoing lines may only be connected or disconnected in a de-energized state.

01 Perform a diagnostic



To test the product:

☑ AFDD is switched off.

1. Press the test button.
2. Check the status of the LED (Table 1)
3. Check the status of the yellow flag.

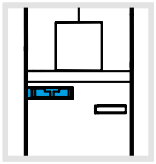
LED color-codes

Indicator		LED Status
	LED OFF	AFDD is OFF or internal failure
	Blinking RED/GREEN + yellow flag absence	AFDD manually tripped
	Blinking RED/GREEN + yellow flag presence	Overload or Short-Circuit
	Steady RED	Residual current fault ⓘ Only for RCBO-AFDD
	Blinking RED/YELLOW	Series arc fault
	Blinking RED	Parallel arc fault
	Steady YELLOW	Overvoltage
	Blinking YELLOW	Internal failure ⓘ Contact the technical support

Table 1: LED status display for a standard troubleshooting

02 AFDD troubleshooting

Handle is ON.



LED is OFF.

↓

Measure voltage of device.

→ Voltage between **216V** (-6%) and **253V** (+10%)

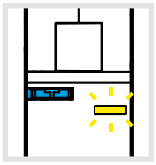
→ Voltage ok.

→ Replace the AFDD.

→ Voltage is below **216V** or above **253V**

→ Check the power supply voltage and/or connection to the AFDD.

Handle is ON or OFF.



LED blinking YELLOW

→ Assumption: **Internal AFDD error**

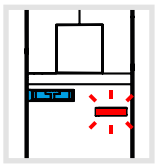
→ Replace the AFDD.

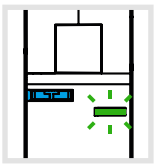
ℹ Contact the Technical support.

03 Standard electrical troubleshooting

Handle is OFF.

Yellow flag absence

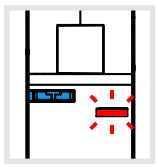


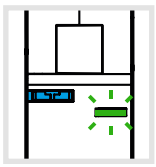


LED blinking RED/GREEN

→ **AFDD manually tripped**

Yellow flag presence





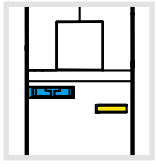
LED blinking RED/GREEN

→ **Short-circuit**

or

→ **Overload**

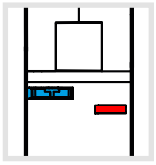
→ Do standard electrical troubleshooting and check the appearance of short-circuit or overload.



LED steady YELLOW

→ Assumption: **Overvoltage**

→ Check the electrical installation and/or the power supply.



LED steady RED

→ Assumption: **Residual current fault**

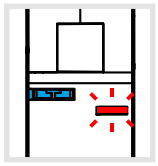
ℹ Only for RCBO-AFDD

→ 1. Switch off load.
2. Do standard electrical troubleshooting.

04

Arc fault troubleshooting

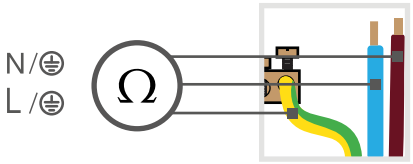
Handle is OFF.



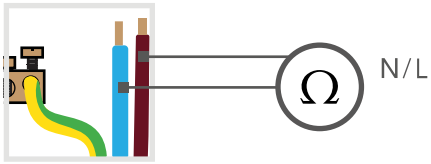
→ **Parallel Arc Fault** →

Make sure that the handle is OFF.
Disconnect all appliances that can be damaged during the insulation test.

LED blinking RED



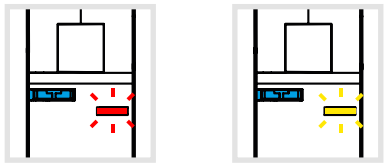
1. Measure the insulation resistance.



2. Measure the insulation resistance.

If the measured value bigger than 1 MΩ. → Fixed wiring is OK. → Check the appliances.

If the measured value smaller than 1 MΩ. → Identify the fault and repair the circuit.



LED blinking RED/YELLOW

→ **Series Arc Fault** →

1. Disconnect the appliances of the protected circuit.
2. Connect and switch ON a resistive load of 1000W to the different sockets of the circuit one by one.

AFDD trips.

Check the fixed cables of the installation.

AFDD doesn't trip.

Check the appliances.

Appliances are OK.

Connect and activate applicances one by one, then all together. Trying to repeat the tripping circumstances.

Appliance(s) is/are not OK.

Replace the appliance(s).

Tripping circumstances are identified.

Replace one (several) involved appliance(s), or move it (them) to another circuit temporary.

Tripping circumstances are not clearly identified.

Check firmware update

A firmware update avaible.

Perform the firmware update.

If necessary →

No firmware update avaible.

Contact **Hager technical support** service as deeper investigation is needed.

Hager technical support: +441952675689 technical@hager.co.uk