

RCBO-AFDD
MCB-AFDD

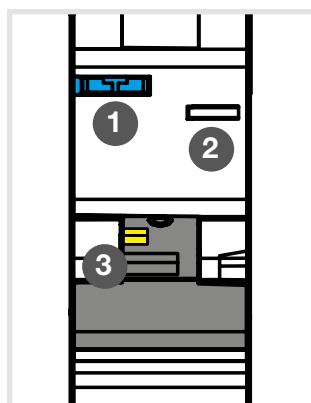
What to do if the **AFDD** has tripped?

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.



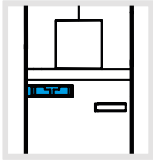
LED color-codes

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 i Only for RCBO-AFDD
	Blinking RED/YELLOW Series arc fault
	Blinking RED Parallel arc fault
	Steady YELLOW Overvoltage
	Blinking YELLOW Internal failure i Contact the technical support

Table 1: LED status display for a standard troubleshooting

AFDD troubleshooting

Handle is ON.



LED is OFF.

Measure voltage of device.

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

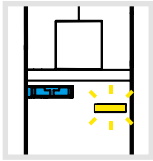
Voltage is below **216V** or above **253V**

Replace the AFDD.

Voltage ok.

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

Handle is ON or OFF.



LED blinking YELLOW

Assumption:
Internal AFDD error

Replace the AFDD.

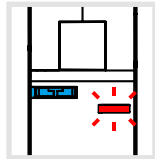
i Contact the Technical support.

Standard electrical troubleshooting

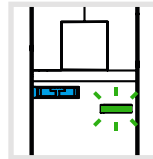
Handle is OFF.



Yellow flag absence



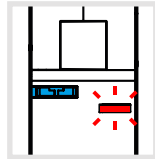
LED blinking RED/GREEN



AFDD manually tripped



Yellow flag presence



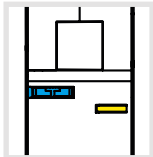
LED blinking RED/GREEN

Short-circuit

or

Overload

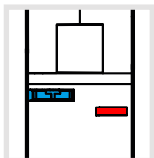
Do standard electrical troubleshooting and check the appearance of short-circuit or overload.



LED steady YELLOW

Assumption:
Overvoltage

Check the electrical installation and/or the power supply.



LED steady RED

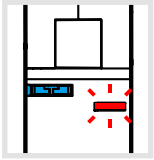
Assumption:
Residual current fault

i Only for RCBO-AFDD

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

Arc fault troubleshooting

Handle is OFF.

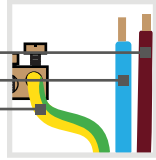


LED blinking RED

Parallel Arc Fault

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

N/⊕
L/⊕



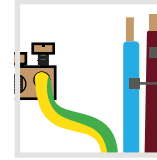
1. Measure the insulation resistance.

If the measured value
bigger than 1 MΩ.

If the measured value
smaller than 1 MΩ.

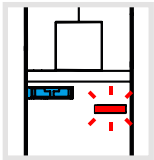
Fixed wiring is OK.

Identify the fault and
repair the circuit.

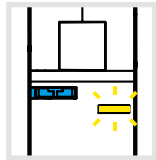


2. Measure the insulation resistance.

Check the appliances.



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.

Appliances are OK.

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

Tripping circumstances are identified.

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

A firmware update available.

Perform the firmware update.

AFDD doesn't trip.

Check the appliances.

Appliance(s) is/are not OK.

Replace the appliance(s).



Tripping circumstances are not clearly identified.

Check firmware update

No firmware update available.

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

If necessary