

Installation Instructions

CONTACTUM



AFDD (Arc Fault Detection Device)



Important safety information

- Installation and testing must only be carried out by a competent person in accordance with the current edition of BS 7671 (IET Wiring Regulations) and all applicable local regulations.
- Isolate the electrical supply before commencing work and verify that the circuit is de-energised using an approved voltage indicator.
- Ensure that the device ratings are suitable for the intended application and prospective fault current at the point of installation.
- This device contains sensitive electronic components. Contactum recommends the installation of a Surge Protective Device (SPD) at the origin of the installation to provide enhanced protection against transient overvoltages.
- Retain these instructions for future reference.

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Installation

1. Isolation

- Switch OFF and isolate all relevant incoming supplies.
- Secure against inadvertent reconnection.
- Confirm absence of voltage.

2. Mounting

- Mount the AFDD onto a 35 mm DIN rail within a compatible Contactum consumer unit or distribution board.
- Ensure that the device is correctly located and fully engaged on the DIN rail.

3. Wiring

- Connect the incoming and outgoing conductors in accordance with the markings on the device.
- Ensure that conductors are correctly identified and terminated.
- Tighten all terminal screws to the torque value marked on the device.

4. Inspection

Before energisation, verify:

- Correct polarity.
- Secure termination of all conductors.
- Integrity of protective conductors.
- Compliance with the installation design.

Commissioning and testing

Carry out inspection and testing in accordance with BS 7671.

1. Restore the supply to the circuit.
 2. Verify correct operation of the device.
 3. Press the TEST button to confirm operation of the AFDD function.
 4. Confirm that the device disconnects the circuit when tested.
 5. Reset the device and verify that the LED indicator displays normal operation.
- If the device fails to trip during testing or cannot be reset, the installation should be investigated by a competent person.

Insulation resistance test

Insulation resistance testing between the line and neutral conductors must be conducted on the load side of the device, with both live conductors disconnected. Do not carry out insulation resistance testing while the live conductors remain connected to the load terminals, as this could result in inaccurate readings.

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LED Status Indicator

Normal Operation - Solid Green LED: Device operational and circuit energised.

Fault Indication: Following an arc fault trip, the device may display a flash sequence to assist in identifying the cause of operation. Refer to the product-specific flash sequence table below.

Condition	Flash Sequence (1.5s pause between repetitions)	After 25s
Series Arc Fault	 1.5s  1.5s 	Solid green LED
Parallel Arc Fault	  1.5s   1.5s  	Solid green LED
Over Voltage Fault	   1.5s    1.5s  	Solid green LED
Self-Test Fault	         	Continuous flashing

Additional Information: The LED indicator does not provide indication of overload, short-circuit or residual current faults. In these cases, the device will trip without displaying a flash sequence. Once the fault has been cleared and the device reset, the LED should return to a solid green indication. Continuous flashing of the LED indicates that the internal self-test has failed. In this condition, the device should be replaced as soon as practicable. If the device repeatedly trips, displays a fault indication, or fails to reset, a competent person should investigate the installation.

Maintenance

No routine maintenance is required other than periodic functional testing. Operate the TEST button at intervals recommended by BS 7671 and the installation maintenance regime. The device performs automatic internal self-testing in accordance with applicable product standards. If the self-test indicates a fault, the device should be replaced.



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