

Arc Fault Detection Devices-AFDD With leakage protection AFDDLE



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I) Product introduction

The arc fault detection device (hereinafter referred to as AFDD/AFDDLE) can effectively detect the fault arc in the access line, including the fault parallel arc and the fault series arc. When the fault arc causing fire is detected in the line, it can perform the function of disconnection and power-off to realize the purpose of early warning of fire. The arc fault detection device is applicable to the electrical lines of 10kW and below in industrial and civil buildings. The length of the protection line should not be greater than 100m. The products comply with GB/t31143-2014 IEC62602 standard and can be applied to nursing homes, schools, commercial buildings, hotels, factories, warehouses, libraries, offices, family houses, and entertainment places.

II) Technical Data Sheet

Items	Value
Model	AFDD without leakage protection/AFDDLE with leakage protection
Working power supply	Rated voltage: AC230V
Rated frequency	50Hz
Monitoring alarm	Fault arc alarm (load below AC63A)
Voltage	Rated value AC230V

electric current	Rated value: AC63A and below
Overall dimensions	82*35.2*62mm
Installation method	35mm guide rail installation
Run indicator	Normal operation, the indicator flashes
SET	Set button
Breaking capacity	Rated short-circuit breaking capacity ICN (KA): 6
Protection level	IP20
Wiring capacity	1~25mm
Outlet characteristics	C,D
Electrostatic discharge resistance	Air discharge > 8; Contact discharge > 6
Pulse group anti-interference	6KA
Surge impact interference	4KA
Operating ambient temperature	-23~+55℃
Damp heat resistance	Type 2
class of pollution	2
Installation type	Level M
altitude	2000m
Installation environment	Ground without significant vibration and impact
Mechanical life	20000cycles
Electrical life	10000cycles

III) Product Settings

T key: Test key - Multi-functional press key

- Green light status: Running status

Press the "T key" and release it quickly (note that it is triggered by release) to test the the breaking function of AFDD protection.

- Red light flashing status: Fault arc alarm status.

The alarm will be immediately lifted after pressing the "T key"

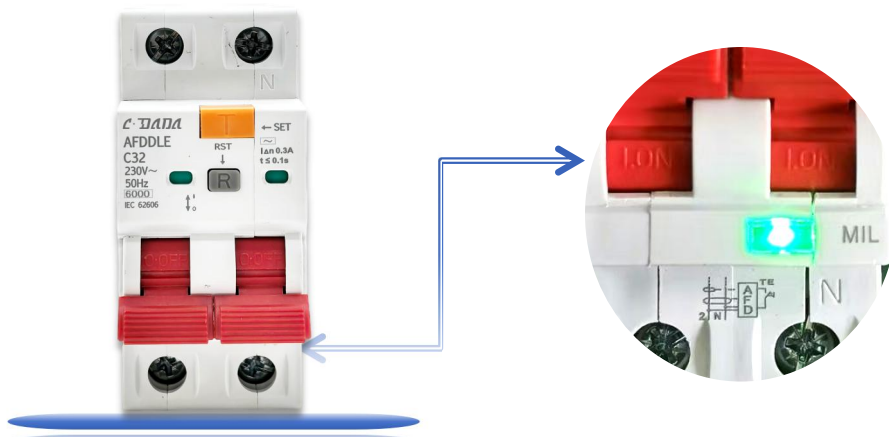
Set the AFD detection mode:

When the green light is on, hold down the "T key "for about 3 seconds and the green light will go off. This indicates that you have entered the Settings status. Press the "T key" again, and the green light will flash to indicate the current working mode. It switches once each time it is pressed!

There are four working modes in total:

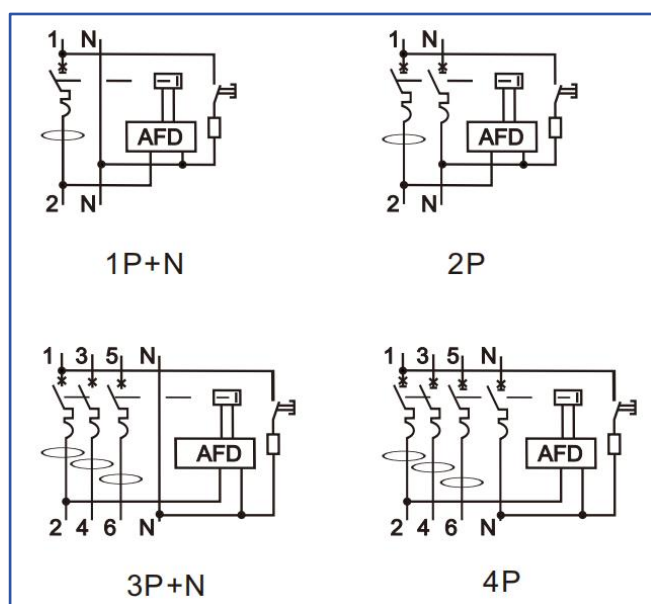
- Flash once: Anti-interference mode
- Flash twice: Slow mode
- Flash three times: Standard mode
- Flash four times: Enhanced mode (not a dedicated scene, not recommended for use)

It takes effect immediately after switching. Wait for 10 seconds and it will automatically exit the setting state. You can also long press the "T key" to exit.

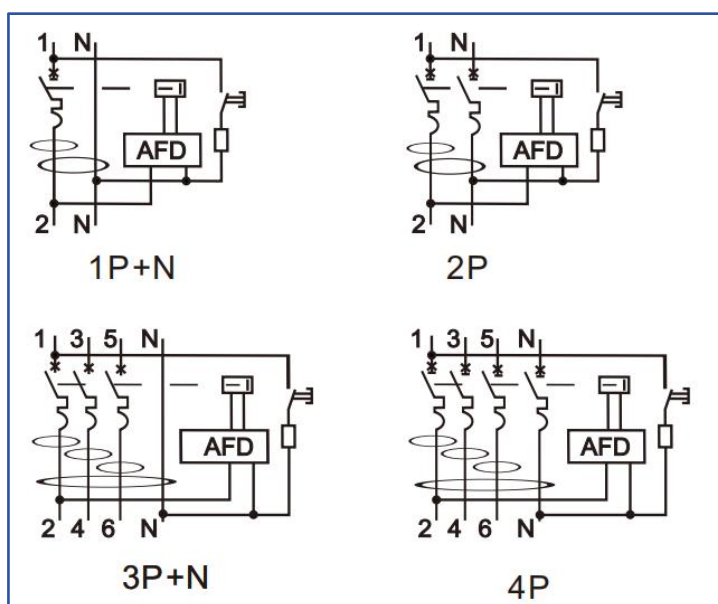


IV) Wiring diagram

With leakage AFDDLE



Without leakage AFDD



V) Product outline dimension and structure definition

