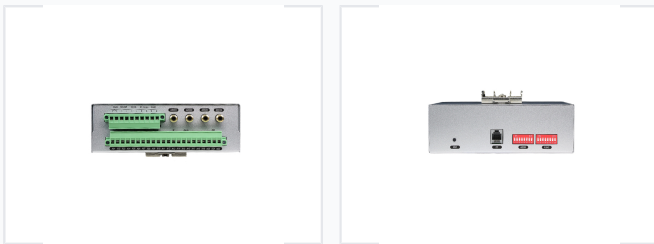


4-Channel Arc Flash Detection Relay for MV/HV Switchgear

This arc flash detection relay is a versatile device for bay-based protection. Supporting 4-channel arc signal detection, it configures multiple arc tripping modes for accurate and fast fault isolation.



ADDITIONAL IMAGES



Overview

Advanced Arc Flash Protection

The AFR-4 is a sophisticated 4-channel arc flash detection relay engineered for medium and high voltage switchgear applications. It provides rapid protection with a tripping time of 5ms, utilizing dual criteria of arc detection and overcurrent detection to minimize equipment damage. With integrated RS485/Modbus communication, this device offers seamless remote monitoring and control, making it an ideal solution for modern power system safety.

Technical Specifications

Tripping Time	5 ms
Arc Detection Channels	4
Power Supply Range	15-70Vdc

Relay Performance

AC Switching Capacity

10 A Max Current	277 Vac Max Voltage
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DC Switching Capacity

12 A Max Current	300 Vdc Max Voltage
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Features & Capabilities

Sensor Compatibility

- ST Visible Light Sensors
- ST Ultraviolet Sensors

Protection Features

Arc Flash Detection, Overcurrent Detection, Circuit Breaker Failure Protection, Regional Arc Light Detection

Communication

RS485 Modbus

Relay Configuration

Relay Output Configuration

Output Function	Type
Arc Trip	NO (1 Relay)
Arc Trip	NO (4 Relays)
Arc Alarm	NO (1 Relay)
MT Out	NO (1 Relay)
Device Self-Test	NC (1 Relay)