

Multichannel Fuse Failure Relay Module

OVERVIEW

Ashe offers a wide range of Multichannel Fuse Failure monitoring instruments for various industrial applications. The instruments are compact, rugged and reliable indicating instruments designed for accurate measurement and control applications.

The MFR-10 is a microcontroller based Ten-channel Fuse Failure Indicator designed for high voltage power line applications. The instrument is offered in two parts – a DIN rail mounted Fuse Monitoring Extension Board in open execution and a DIN rail mounted Control Module enclosure which indicates the “OK” or “FAIL” status of the Fuses being monitored.

The series of instruments are designed to indicate the failure of a Fuse (Fuse blown condition) in power lines. Most panels have multiple fuses in power lines at various locations. This instrument is used to indicate the fuse blown condition at any location. The FFR series are low voltage versions available for six-fuse and eight-fuse applications, while the MFR series is a high voltage, ten-channel version.

The instrument provides LED indications of each fuse status on the front panel. The Fuse Failure Relay also provides two potential-free Relay contacts for alarm purposes. An external Lamp indication or Hooter can be connected to the Relay contact for remote annunciation purposes.

The instrument is available in DIN standard panel mount enclosure and operates on 24 VDC power supply. Other features include protection from high voltage inputs, optical isolation from alarm section, single phase and three-phase operation, etc.



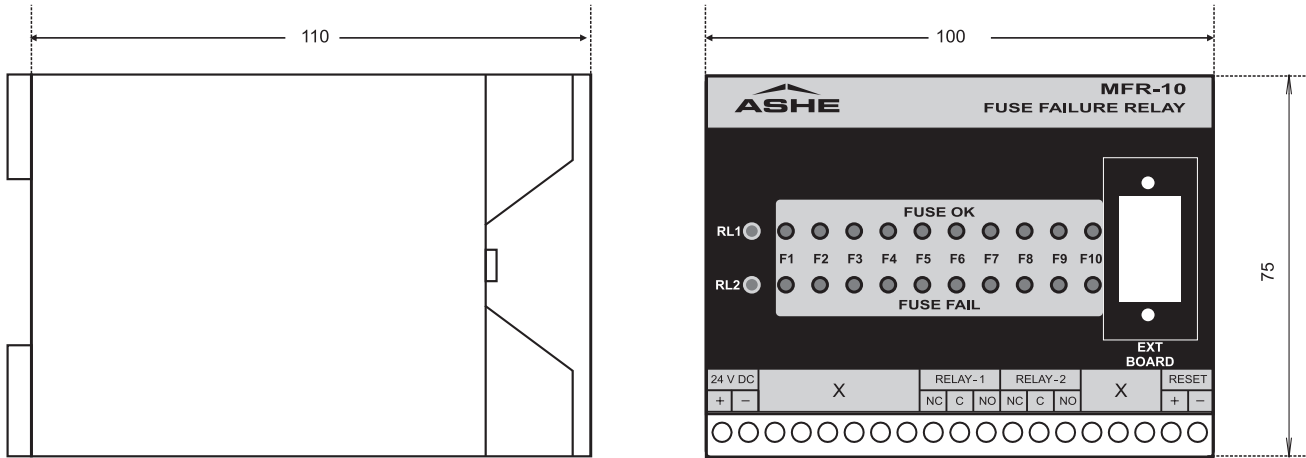
SPECIFICATIONS

Model	ASHE MFR-10.
Type	Multichannel Fuse Failure Indicator with Dual Relay outputs and fuse status indications.
Input Signal	0 to 750 VAC/DC.
Channels	Ten Fuses monitored
Indications	Ten Green & Ten Red LEDs to indicate status of Fuses; two LEDs for Relay status.
Control Output	Two Relay change over contacts.
Contact Rating	10 Ampere @ 230 V AC. (Res. Loads)
Alarm Reset	Reset facility provided on terminals.
Power Supply	24 VDC.
Logic	When any one of the Ten fuses becomes open, Relay-1 will change over and the LED of the corresponding fuse will glow Red. If a second fuse blows before the first is replaced, the second Relay will change over and the LED of the second fuse will start flashing Red, thus differentiating from the fuse that failed first.
Dimensions	75 x 100 x 110 mm [H x W x D] with Extension Board.
Components	<ul style="list-style-type: none"> • One Fuse Failure Relay Control Module; • One open execution Extension Board with Voltage dropping Resistors; and • One 3 mt interconnecting Cable between the two units.
Execution	DIN Rail mounting.
Enclosure	Industrial grade ABS
Weight	0.8 kg with Extension Board
Operating Temperature	0 to 55°C.

FEATURES

- Multi-channel Fuse Monitoring for high power applications
- Dual colour LEDs for fuse status indications of each channel
- Two Control Relay outputs for dual alarms
- Sequence logic to indicate first fuse failure
- Open-execution Fuse Monitoring Extension board for better heat dissipation
- Very low power consumption
- Rugged, industrial grade ABS enclosure for Control Module
- High Noise immunity
- DIN Rail mount execution for both components
- Proven track record of several thousand installations

DIMENSIONAL DIAGRAM



HOW TO ORDER

MULTICHANNEL FUSE FAILURE RELAY INDICATOR	MFR				
Configuration and add-on options					
1 CHANNELS					
▶ Six Channels (ask for FFR Series)			6		
▶ Eight Channels (ask for FFR Series)			8		
▶ Ten Channels			10		
2 CONTROL RELAY OUTPUT					
▶ No Relay Output				0	
▶ Two Relay Output				2	
3 EXECUTION					
▶ DIN Rail Mounting					D W
▶ Field Mounting in Weather-proof execution (Polycarbonate enclosure, Ingress protection)					

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Designed and Manufactured by :

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