

# **OPERATION MANUAL**

## **FUSE FAILURE RELAY WITH LATCHING**

**FFR-6**

# FUSE FAILURE RELAY WITH LATCHING

MODEL: FFR-6

## DESCRIPTION

FFR-6 Fuse Failure Monitoring instrument which is used for various industrial applications.

The instruments are offered in a highly compact, rugged and reliable execution.

These compact Panel mount 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. FFR-6 is the Six-channel Fuse Failure Relay.

The instrument provides LED indications of each fuse status on the front panel. The fuse failure relay also provides one potential free Relay contact 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 Panel Mount enclosure and operated on 230AC power supply.

Further, the instrument is manufactured using selected high-grade components which guarantee it's functionality and long operational life. The instrument carries a performance guarantee against manufacturing defects and workmanship defects.

### Logic:

When any one of the Six fuses becomes open, Relay 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 chance over and the LED of the second fuse will start flashing RED, thus differentiating from the fuse that failed first.

IF fuse is replaced after blows the LED indication will still show Fail status for corresponding Fuse until reset is done by shorting the reset terminals

## TERMINAL DETAILS

1	2	3	4	5	6	7	8	9	10	11	12
+	-	+	-	+	-	+	-	+	-	+	-
A1	B1	A2	B2	A3	B3	A4	B4	A5	B5	A6	B6

13	14	15	16	17	18	19	20	21	22
L	N	E	NC	C	NO	X	X	X	X
230 VAC Power Supply			Relay			No Connections			

TERMINAL BLOCK	TERMINAL NUMBER	NOTATION		DESCRIPTION
UPPER ROW	1	+	A1	Up to 500 VAC/VDC Input Signal
	2	-	B1	
	3	+	A2	
	4	-	B2	
	5	+	A3	
	6	-	B3	
	7	+	A4	
	8	-	B4	
	9	+	A5	
	10	-	B5	
	11	+	A6	
	12	-	B6	
LOWER ROW	13	L		230 VAC,50Hz Power Supply
	14	N		
	15	E		
	16	NC		Control Relay Output
	17	C		
	18	NO		
	19	X		No Connections
	20	X		
	21	X		
	22	X		

### TECHNICAL SPECIFICATIONS

Model	:	FFR-6 (WITH LATCHING)
Type	:	Fuse Failure Relay with Relay outputs and Fuse status Indications.
Input Voltage	:	Up to 500 VAC/VDC
Channels	:	Six
LED Indications	:	Six red LEDs to indicate status of Fuses. And One green LED to indicate Power On.
Control Output	:	Single Control Relay change-over contact
Contact rating	:	10 Ampere @ 230 V AC (Res. Loads).
Power Supply	:	230 VAC,50Hz
Dimensions	:	96 X 96 X 110 mm (H X W X D)
Enclosure	:	Panel Mounting.
Weight	:	Approximately 0.7 kgs.