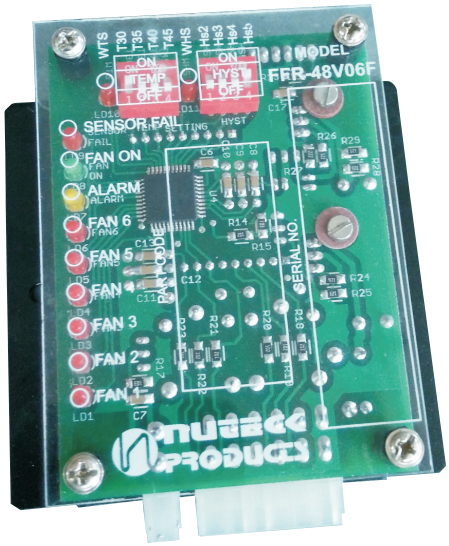
FAN FAIL RELAY - 48V06F



FEATURES

- Excellent fan controls
- Settable hysteresis to cut OFF & ON
- NTC(10K) temperature sensor
- Settable temperature setting
- Runs on 40-60 VDC
- Non volatile memory for data retention
- Fan failure indication and alarm
- Temperature sensor failure indication
- Indication of wrong hysteresis & temperature setting
- Fan selection from 1 to 6 fans
- LED indications : Sensor Fail, Alarm ON, FAN ON, FAN fail (up to 6 fans),wrong hysteresis & temperature setting
- Panel mounting

SPECIFICATIONS

Model No.		FFR-48V06F
Input	System Supply	40 - 60 VDC
	Fan Status	Active low input on normal condition
	Temperature sensor	NTC 10K
Ouput	Potential free contact for Alarm	1 NO contact, 230VAC 5A
	Fan supply Voltage	40 - 60 VDC
LED Indications	Fan fail	Upto 6 fans
	Sensor fail	Sensor open or not connected
	Alarm	Fan fail (1 to 6)
	Wrong Temperature & Hysteresis setting	If more than one or no switch is ON
DIP switch Settings	Temperature	30°C, 35°C, 40°C, 45°C
	Hysteresis	2°C, 3°C, 4°C, 5°C
	Precision	NTC10K : ±5%
	Operating Temperature	-5°C to +50°C
	Dimensions L x W (mm)	98.5 x 95 mm
	Mounting	Panel mounting

Notes:

1. Specifications are subject to change without prior notice due to constant improvement in design & technology.

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OPERATING MODES

1) FAN Selection Mode
2) Parameter Setting

1) Fan Selection Mode

- ▶ Keep all switches of TEMP DIP S/W and HYST DIP S/W in ON postion & turn ON the power.
- ▶ WTS & WHS LED's will blink to indicate calibration mode is activated.
- ▶ Select FANs for status to be monitored as per your requirement by keeping respective Switch in OFF position as per below table-

DIP S/W	S/W	FAN SELECTION	SELECT^{N} CRITERIA
TEMP DIP S/W	1	FAN 1	OFF
	2	FAN 2	OFF
	3	FAN 3	OFF
	4	FAN 4	OFF
HYST DIP S/W	1	FAN 5	OFF
	2	FAN 6	OFF

- ▶ Store selected FANs by keeping HYST DIP S/W 3 & 4 in OFF Position.
- ▶ The moment you store selected Fans,it will goes in operational mode and WTS and WHS LED will stop blinking. Refer parameter setting procedure to set Temperature and Hysteresis.

For Example:
If you want to select 3 no. of FANs (FAN 1, FAN 2, FAN 3), then keep TEMP DIP S/W 1 to 3 in OFF position. After that keep HYST. DIP S/W 3 & 4 in OFF position to store selected FANs.
Then Controller will check status of only selected fans i.e FAN 1,FAN 2 & FAN 3, other fan status input will be ignored.

2) Parameter Setting

- ▶ There are two DIP switches for temperature & hysteresis setting.
- ▶ Temperature limit can be set from 30˚C to 45°C by turning ON respective TEMP DIP S/W.

DIP S/W	S/W	TEMP. SELECTION
TEMP DIP S/W	1	30°C
	2	35°C
	3	40°C
	4	45°C

- ▶ You can set only one temp. at a time by selecting only one TEMP DIP S/W . If two or more than two Temp. DIP switches are ON then WTS LED will glow to indicate temp. setting error.
- ▶ Hysteresis limit can be set from 2˚C to 5°C by turning ON respective HYST DIP S/W.

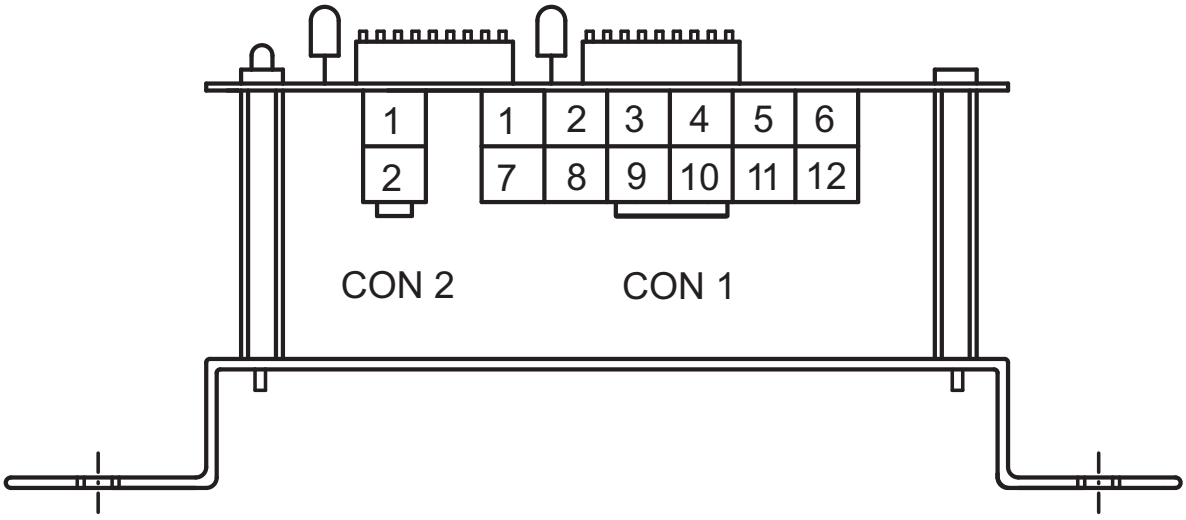
DIP S/W	S/W	HYST. SELECTION
HYST DIP S/W	1	2°C
	2	3°C
	3	4°C
	4	5°C

- ▶ You can set only one Hyst. at a time by selecting only one HYST DIP S/W . If two or more than two Hyst. DIP switches are ON then WHS LED will glow to indicate Hyst. setting error.

For Example :

If temperature is set to 35°C & hysteresis is 3°C, then fan will turn ON at 35°C & will turn OFF at (t-3)°C i.e 32°C

Fan Fail Relay Connector Terminals



CON 1

Pin No. 1 :- Fan 4
Pin No. 2 :- Fan 3
Pin No. 3 :- Fan 2
Pin No. 4 :- Fan 1
Pin No. 5 :- +48 V
Pin No. 6 :- GND
Pin No. 7 :- Fan 5
Pin No. 8 :- Alarm Comman
Pin No. 9 :- Alarm NO
Pin No. 10 :- Fan 6
Pin No. 11 :- Fan out 48V
Pin No. 12 :- Fan out GND

CON 2

Pin No. 1 :- Sensor Input
Pin No. 2 :- Sensor Input