

AC/DC Alarm / Trip Relay

TX8-DA

FEATURES

- Measures AC: 1~600V, 0-5A* DC: 0~1/10/20/4~20mA, 50mV~600V, 100uA
- 6 Popular Input Ranges Programmable
- Dual Alarm available (HH,HL,Hi-Lo)
- Plugs into 8 pin Din Rail mounted base
- Low cost & high stability
- CE Approved



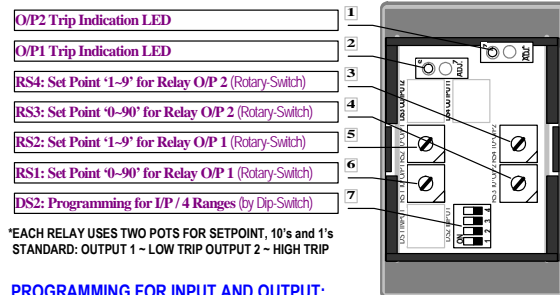
SPECIFICATION

Input Range	Input Impedance	Input Range	Input Impedance
0 - 10 mV	≥ 1M ohm	0 - 100 μA	≤ 1000 ohm
0 - 50 mV	≥ 1M ohm	0 - 1 mA	≤ 100 ohm
0 - 100 mV	≥ 1M ohm	0 - 10 mA	≤ 20 ohm
0 - 1 V	≥ 1M ohm	0 - 20 mA	≤ 10 ohm
0 - 5 V	≥ 1M ohm	4 - 20 mA	≤ 10 ohm
0 - 10 V	≥ 1M ohm	0 - 1 A	0.05 ohm
1 - 5 V	≥ 1M ohm	0 - 5 A	0.02 ohm
2 - 10 V	≥ 1M ohm		
-10 - 0 - +10 V	≥ 1M ohm		
0 - 150 V	≥ 1M ohm		
0 - 300 V	≥ 1M ohm		
0 - 600 V	≥ 1M ohm		

- Response time:** ≤ 250 msec.
- Setpoint adjustment:** 10 position rotary switch
Setting Range: 00% - 99% rated of input
- Trip point:** ±0.1% + 1%(Hi trip) or ±0.1% - 1%(Low trip)
- Differential:** Preset at 1%, 1 - 10%(specify)
- Trip indication LED:** Red light turns on when the coil is energized
- Relay contacts:** AC 110V/1A, 220V/0.5A SPST
DC 30V/1A
Normally open as standard
- Power Supply:** AC 115 or 230V ±15%, 50/60 Hz
Changeable by internal jumper
Option: DC 12V, 24V, 48V ±10%, (Isolated)
DC 5W, AC 6.5VA
- Power consumption:** DC 5W, AC 6.5VA
- Operating temperature:** 0~60 °C
- Operating relative humidity:** 20-95 %RH
- Temperature coefficient:** ≤ 100 PPM/°C
- Storage temperature:** -10~70 °C
- Isolation:** Between Power / Input / Contacts
≥ 100M ohm at 500Vdc
- Surge test:** 4 KV, 1.2 x 50 μsec.
Common mode & differential mode
- Dielectric Strength:** AC 2.0 KV for 1 min
Between Power / Input / Contacts / Case
- Standard:** Comply with EN50081-1, EN50082-2

Dimensions: 50mm(W) x 87mm(H) x 123mm(D)-with socket
Mounting: Surface and DIN rail 35mm WIDE
Weight: 500g

ADJUSTMENT



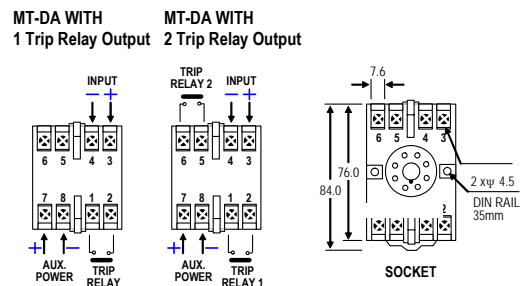
*EACH RELAY USES TWO POTS FOR SETPOINT, 10's and 1's
STANDARD: OUTPUT 1 - LOW TRIP OUTPUT 2 - HIGH TRIP

PROGRAMMING FOR INPUT AND OUTPUT:

SIGNAL RANGE	INPUT		TRIP RELAY 1		TRIP RELAY 2	
	DS1	DS2(7)	SET	RS1(6) RS2(5)	SET	RS3(4) RS4(3)
1 ~ 5 V	NA		49%		99%	
0 ~ 10V	NA		25%		85%	
0 ~ 20 mA	NA		10%		70%	
4 ~ 20 mA	NA		0%		62%	

For 0-5V range turn on DS2 switch 3 only. 1, 2, 4 off. For 2-10V range turn on DS2 switches 1 & 2 only. Sides 4 are off.

CONNECTION DIAGRAM & SOCKET (8 PIN)



ORDER CODING

TX8-DA- Input Type — Input Range — Output 1 — Output 2 — Aux. Power

CODE	INPUT	CODE	INPUT	CODE	INPUT	CODE	OUTPUT	CODE	AUX. POWER
D	DC	A1	0 - 100 μA	V1	0 - 10 mV	H	Trip Relay H	A1	AC 115 V
A	AC	A2	0 - 1 mA	V2	0 - 50 mV	L	Trip Relay L	A2	AC 230 V
		A3	0 - 10 mA	V3	0 - 100 mV	N	None	A3	AC 380 V
		A4	0 - 20 mA	V4	0 - 1 V			A4	AC 415 V
		A5	4 - 20 mA	V8	2 - 10 V			D12	DC 12 V
		A6	0 - 1 A*	V9	-10 - +10 V			D24	DC 24 V
		A7	0 - 5 A*	VA	0 - 150 V			D48	DC 48 V
		AO	Specify (mA i/p)	VB	0 - 300 V			D11	DC 110 V
			Programmable Ranges	VC	0 - 600 V			AD1	20-90Vdc/ac
			0-5V/-10V/1-5V//2-10V	VO	Specify (V o/p)			AD2	90-265Vdc/ac
			/0-20mA/4-20mA						

*Do not unplug live