

Latching Relay TRW2

MAIN FEATURES

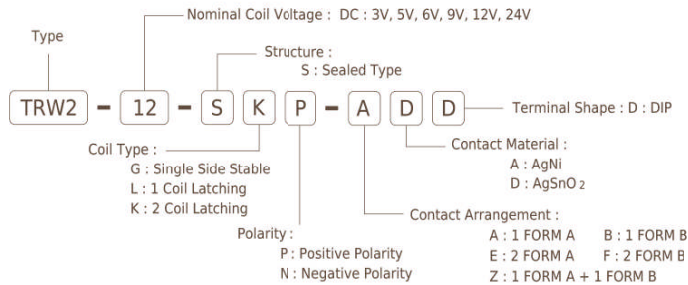
- High switching capacity
10A 250VAC / 8A 250VAC/30VDC
- High Sensitive.
- 4KV dielectric strength (between coil and contacts).
- Single side stable and latching type available.
- 1 Form A, 2 Form A contact arrangement.
- Environmental friendly product (RoHS compliant).
- Outline Dimensions: 20.0 x 15.0 x 10.2 mm.



APPLICATIONS

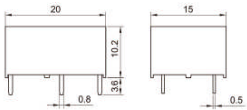
- Electricity Meter.
- Time Switches.
- Ripple Control receiver.
- Lighting Control.

ORDERING INFORMATION

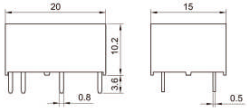


DIMENSION(unit:mm)

Single Side Stable/ 1 Coil Latching



2 Coil Latching

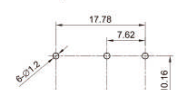


DRILLING(unit:mm)

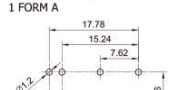
Single Side Stable/ 1 Coil Latching
1 FORM A



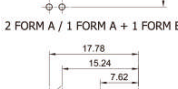
2 FORM A / 1 FORM A + 1 FORM B



2 Coil Latching
1 FORM A



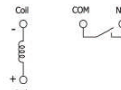
2 FORM A / 1 FORM A + 1 FORM B



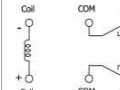
WIRING DIAGRAM

Single Side Stable/

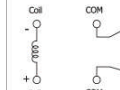
1 Form A



2 Form A

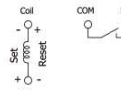


1 Form A + 1 Form B

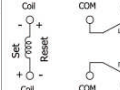


1 Coil Latching

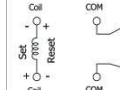
1 Form A



2 Form A

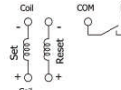


1 Form A + 1 Form B

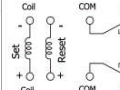


2 Coil Latching

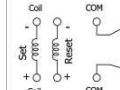
1 Form A



2 Form A



1 Form A + 1 Form B



(Reset Position)

COIL DATA CHART(at 20°C)

TRW2	Coil Voltage (VDC)	Coil Resistance (Ω) ± 10%	Pick-up voltage(VDC)	Drop-out voltage(VDC)	Coil Power(mW)
Single side stable (G Type) 1 Form A, 1A+1B	3	45	2.1	0.3	200
	5	125	3.5	0.5	
	6	180	4.2	0.5	
	9	405	6.3	0.9	
	12	720	8.4	1.2	
Single side stable (G Type) 2 Form A	24	2880	16.8	2.4	280
	3	32.1	2.1	0.3	
	5	89.3	3.5	0.5	
	6	129	4.2	0.6	
	9	289	6.3	0.9	
12	514	8.4	1.2		
24	2056	16.8	2.4		

TRW2	Coil Voltage (VDC)	Coil Resistance(Ω) ± 10%	Set voltage(VDC)	Reset voltage(VDC)	Coil Power(mW)
1 Coil Latching (L Type)	3	45	2.1	-2.1	200
	5	125	3.5	-3.5	
	6	180	4.2	-4.2	
	9	405	6.3	-6.3	
	12	720	8.4	-8.4	
2 Coil Latching (K Type)	24	2880	16.8	-16.8	280
	3	32.1 + 32.1	2.1	2.1	
	5	89.3 + 89.3	3.5	3.5	
	6	129 + 129	4.2	4.2	
	9	289 + 289	6.3	6.3	
12	514 + 514	8.4	8.4		
24	2056 + 2056	16.8	16.8		

CONTACT RATING

Item	TRW2		
	1 Form A	2 Form A	(1 Form A + 1 Form B)
Contact Rating	10A 250VAC 10A 30VDC 1/4 HP 125VAC 1/3 HP 250VAC	8A 250VAC 8A 30VDC 1/4 HP 125VAC 1/3 HP 250VAC	8A 250VAC 8A 30VDC 1/4 HP 125VAC
Max. Switching Voltage	277VAC		
Max. Switching Current	10A	8A	
Max. Switching Power	2500VA	2000VA	
Contact Material	Silver Alloy		

PERFORMANCE(at initial value)

Item	TRW2
Contact Resistance	50mΩ (at 1A 6VDC)
Operation Time(at nomi. Volt.)	10ms max.
Release (Reset) Time(at nomi. Volt.)	10ms max.
Dielectric Strength	Between open contacts 1000VAC (1 minute) Between coil & contacts 4000VAC (1 minute)
Pulse width of coil	50ms min. (Recommend: 100ms to 200ms)
Max. operate frequency (under rated load)	20 cycles / min.
Temperature rise(at nomi.volt.)	50K max.
Vibration Resistance	10 to 55Hz D.A. : 1.5mm
Shock Resistance	98m/s ²
Humidity	5% to 85% RH
Ambient Temperature	-40°C to +70°C
Life Expectancy	Mechanically 1 × 10 ⁷ ops. (no load) Electrically 1 × 10 ⁹ ops. (2 Form A : 3 × 10 ⁴ ops.)
Weight	Abt. 6g.

NOTICE

- Relay is on the "reset" or "set" status when being released from stock, with the consideration of shock risen from transit and relay mounting, relay would be changed to "set" or "reset" status, therefore, when application (connecting the power supply), please reset the relay to "set" or "reset" status on request.
- In order to maintain "set" or "reset" status, energized voltage to coil should reach the rated voltage, impulse width should be 5 times more than "set" or "reset" time. Do not energize voltage to "set" coil and "reset" coil simultaneously. And also long energized time (more than 1 min) should be avoided.
- In order to avoid changing operate voltage, products should not be kept in strong magnetic field during transportation, storage and application.

1. Tolerance ±0.5mm on all dimensions unless otherwise stated.
2. Tolerance ±0.1mm on PCB DRILLING dimension unless otherwise stated.