



TRN

➤ MAIN FEATURES

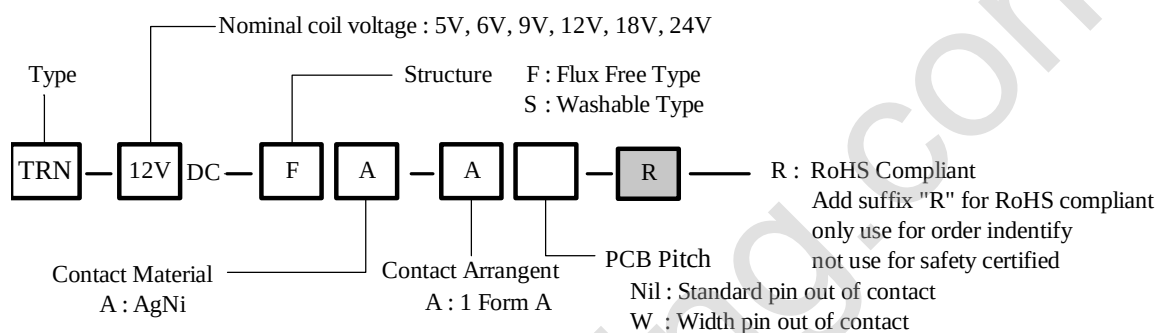
- Small size, light weight.
- Low coil power consumption 0.12W.
- PC board mounting, SIL terminal.

➤ APPLICATIONS

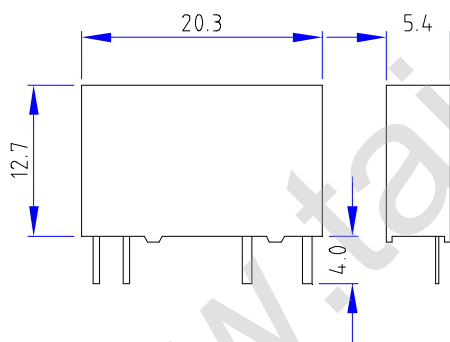
- Suitable for household electrical appliances, automation system, electronic equipment, instrument, meter, telecommunication facilities and remote control facilities.



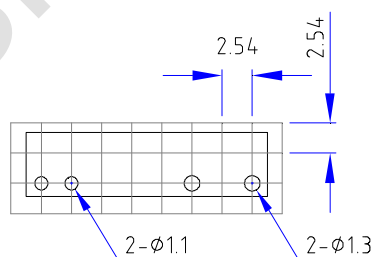
➤ ORDERING INFORMATION



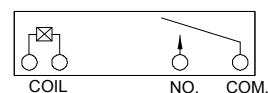
■ DIMENSION(unit:mm)



■ DRILLING(unit:mm)



■ WIRING DIAGRAM



Remark: 1.In case of no tolerance shown in dimension: $\pm 0.5\text{mm}$.
2.The tolerance without indicating for DRILLING is always $\pm 0.1\text{mm}$.

➤ COIL DATA CHART(at 20℃)

Coil Sensitivity	Coil Voltage (VDC)Rated	Nominal Current (mA)	Coil Resistance (Ω) $\pm 10\%$	Coil Power (W)	Pickup voltage (VDC) Max	Release voltage (VDC) Min.	Coil Voltage (VDC) Max.
TRN	5	24	208	0.12	70% of rated voltage	5% of rated voltage	120%
	6	20	300				
	9	13.3	675				
	12	10	1200				
	18	6.7	2700	0.18			
	24	5	3200				

➤ CONTACT RATING

Item	Type	TRN
Contact Capacity Resistive Load ($\cos\Phi = 1$)		5A 30VDC/250VAC
Max. Switching Voltage		110VDC 250VAC
Max. Switching Current		5A
Max. Switching Power Force		150W 1250VAC
Referenced Min. Applicable Load		0.1mA 0.1VDC
Contact Material		Ag Alloy (Gold clad)

➤ PERFORMANCE (at initial value)

Item	Type	TRN
Contact Resistance		30m Ω Min(at 1A/6V)
Operation Time		Approx. 10msec
Release Time		Approx. 5msec
Dielectric Strength		
Between open contacts		1000VAC (1 minute)
Between coil & contact		2000VAC (1 minute)
Shock Resistance		
Functional		147m/s ² 11ms
Survival		980m/s ² 6ms
Vibration Resistance		
Functional		2.5mm D.A. 10 to 55Hz
Survival		3.5mm D.A. 10 to 55Hz
Terminals resistance		5N
Solderability		235℃ $\pm$ 2℃, 3 $\pm$ 0.5s
Temperature Range		-40℃ ~70℃
Relative Humidity		5%~85%(at 40℃)
Insulation Resistance		1000 M(Min. (at 500VDC)
Life Expectancy		
Electrically		5 $\times$ 10 ⁴ ops. Min. (5A/30VDC)
Mechanically		1 $\times$ 10 ⁵ ops. Min.
Weight		3g
UL		E156521

This datasheet for reference and subject to change without notice. Please double check final specification with Tai-Shing.
(0939AA08VOL01)