

# TRN

## ➤ MAIN FEATURES

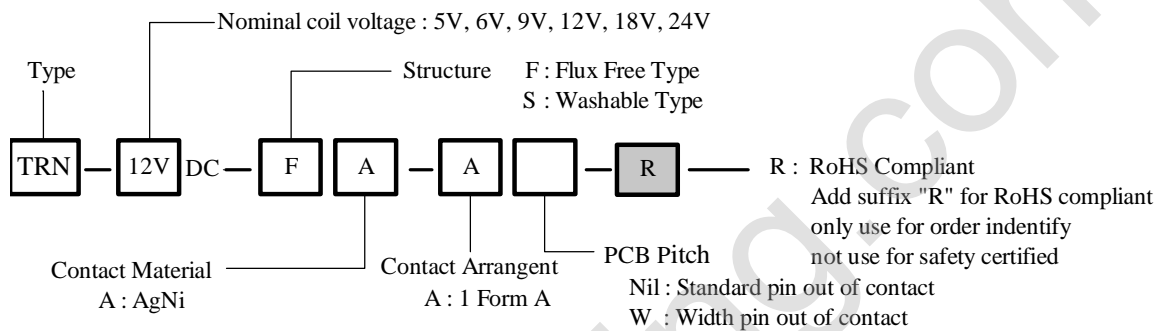
- Small size, light weight.
- Low coil power consumption 0.12W.
- PC board mounting, SIL terminal.

## ➤ APPLICATIONS

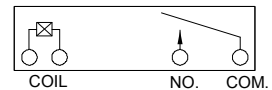
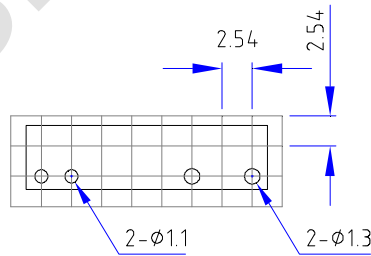
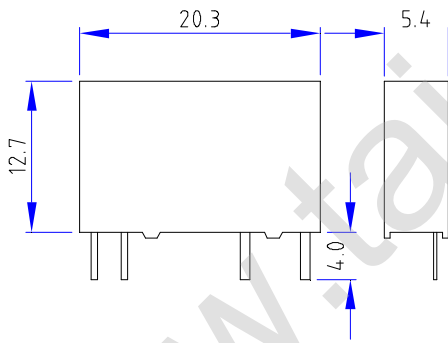
- Suitable for household electrical appliances, automation system, electronic equipment, instrument, meter, telecommunication facilities and remote control facilities.



## ➤ ORDERING INFORMATION



DIMENSION (unit:mm)	DRILLING (unit:mm)	WIRING DIAGRAM
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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°C)

Coil Sensitivity	Coil Voltage (VDC)Rated	Nominal Current (mA)	Coil Resistance ( $\Omega$ ) $\pm 10\%$	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				
	24	5	3200	0.18			

➤ **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 $\Omega$ 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 <sup>2</sup> 11ms
Survival		980m/s <sup>2</sup> 6ms
Vibration Resistance		
Functional		2.5mm D.A. 10 to 55Hz
Survival		3.5mm D.A. 10 to 55Hz
Terminals resistance		5N
Solderability		235°C $\pm$ 2°C, 3 $\pm$ 0.5s
Temperature Range		-40°C ~70°C
Relative Humidity		5%~85%(at 40°C)
Insulation Resistance		1000 M( Min. (at 500VDC)
Life Expectancy		
Electrically		5 $\times$ 10 <sup>4</sup> ops. Min. ( 5A/30VDC)
Mechanically		1 $\times$ 10 <sup>5</sup> ops. Min. 2 $\times$ 10 <sup>7</sup> 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)