

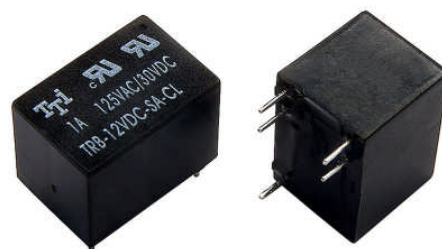


TRB1

TRB1S Coil Terminal
Arranged on One Side

➤ MAIN FEATURES

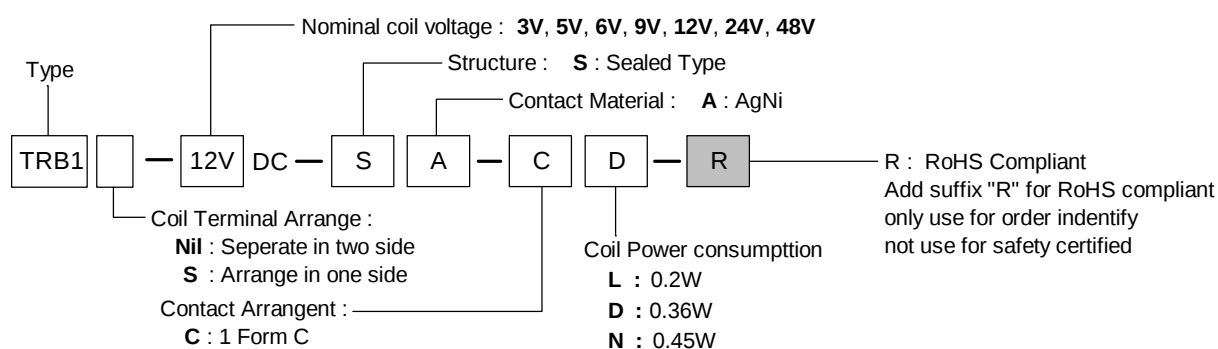
- Subminiature Type.
- Silver or Silver Alloy Contacts with Gold Plated.
- Low Dissipation.
- Sealed Type Available.
- Design conforms to foreign safety standard UL.
- UL and cUL recognized.



➤ APPLICATIONS

- Microprocessor Control, Store Program Exchanger and Household Appliance.

➤ ORDERING INFORMATION

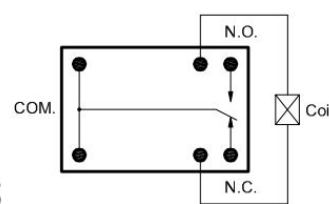
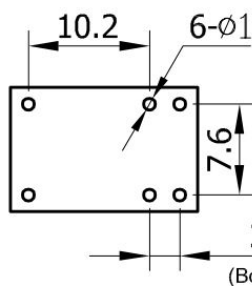
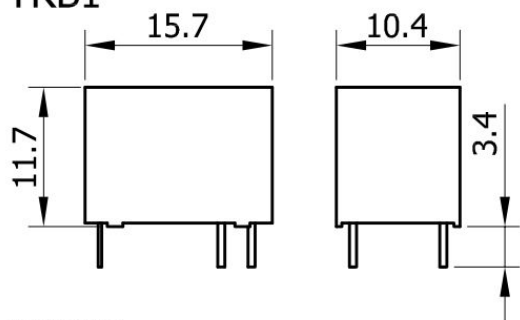


■ DIMENSION (unit:mm)

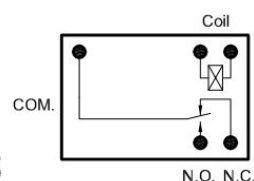
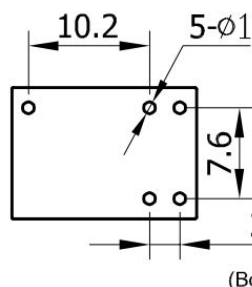
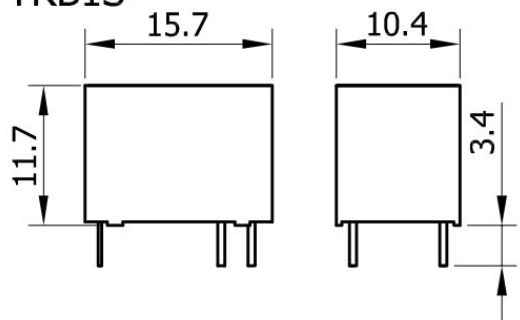
■ DRILLING (unit:mm)

■ WIRING DIAGRAM

TRB1



TRB1S



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	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max-Allowable Voltage (VDC)
TRB1/TRB1S - L Type	3	66.7	45	abt. 0.2 W	75% Max.	10% Min.	110%
	5	40	125				
	6	33.3	180				
	9	22.2	405				
	12	16.7	720				
	24	8.3	2880				
TRB1/TRB1S - D Type	3	120	25	abt. 0.36W	75% Max.	10% Min.	110%
	5	71.4	69				
	6	60	100				
	9	40	225				
	12	30	400				
	24	15	1600				
TRB1/TRB1S - N Type	3	150	20	abt. 0.45W	75% Max.	10% Min.	110%
	5	90	56				
	6	75	80				
	9	50	180				
	12	37.5	320				
	24	18.7	1280				
	48	9	5120				

➤ CONTACT RATING

Item	Type	TRB1 / TRB1S
Contact Capacity		3A 120VAC
Resistive Load ($\cos\Phi=1$)		3A 24VDC
Rated Carrying Current		3 A
Max. Allowable Voltage		240VAC, 60VDC
Max. Allowable Current		3 A
Max. Allowable Power Force		360VA, 72W
Contact Material		Silver Alloy

➤ PERFORMANCE (at initial value)

Item	Type	TRB1 / TRB1S
Contact Resistance		100m Ω Max. (AT 6VDC 1A)
Operation Time		5msec Max.
Release Time		5msec Max.
Dielectric Strength		1000VAC 50/60Hz (1 minute)
Between coil & contact		500VAC 50/60Hz (1 minute)
Between contacts		
Insulation Resistance		100 M Ω Min. (AT 500VDC)
Max. ON/OFF Switching		
Mechanically		300 operation/min
Electrically		30 operation/min
Operating Ambient Temperature		-30°C to +85°C (No water condensation and no water drop)
Operating Humidity		40% to 85% RH
Vibration		10 to 55Hz Single Amplitude 1.5mm
Shock		
Endurance		490m/s ² .
Error Operation		98m/s ² .
Life Expectancy		
Mechanically		1 × 10 ⁷ ops. Min. (no load)
Electrically		1 × 10 ⁵ ops. Min. (at rated coil voltage)
Weight		abt. 3.5grs.
UL & cUL		

This datasheet for reference and subject to change without notice. Please double check final specification with Tai-Shing.
(1218AA08VOL01)