



Telecom Relay TRB1/TRB1S

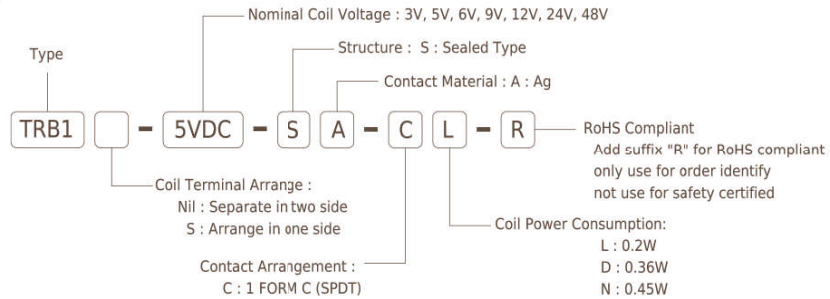
MAIN FEATURES

- 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.

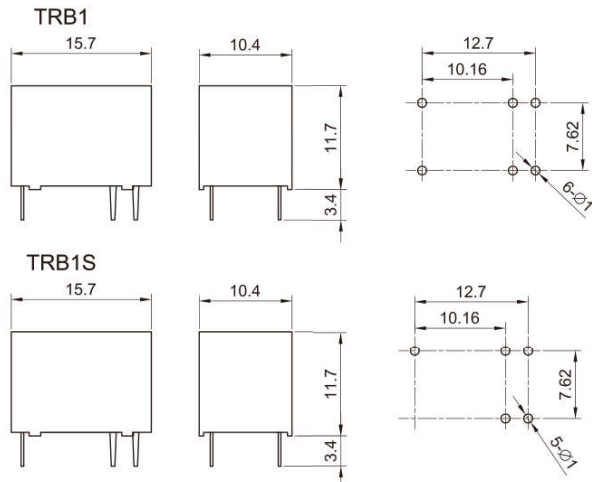
APPLICATIONS

- Microprocessor Control, Store Program Exchanger and Household Appliance.

ORDERING INFORMATION

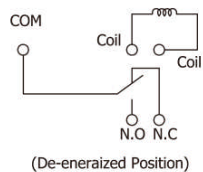
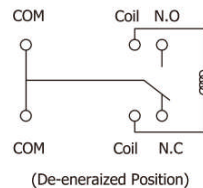


DIMENSION(unit:mm)



DRILLING(unit:mm)

WIRING DIAGRAM



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				
TRB1/TRB1S - D Type	24	8.3	2880	abt. 0.36W	75% Max.	10% Min.	110%
	3	120	25				
	5	71.4	69				
	6	60	100				
	9	40	225				
TRB1/TRB1S - N Type	12	30	400	abt. 0.45W	75% Max.	10% Min.	110%
	24	15	1600				
	48	7.5	6400				
	3	150	20				
	5	90	56				
	6	75	80				
	9	50	180				
	12	37.5	320				
	24	18.7	1280				
	48	9	5120				

CONTACT RATING

Item	TRB1/TRB1S
Contact Capacity	3A/120VAC
Resistive Load (cos ϕ =1)	3A/24VDC
Rated Carrying Current	3 A
Max. Allowable Voltage	240VAC, 60VDC
Max. Allowable Current	3 A
Max. Allowable Power Force	360VA, 90W
Contact Material	Silver Alloy

PERFORMANCE(at initial value)

Item	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	100 M Ω Min. (at 500VDC)
Insulation Resistance	300 operation/min
Max. ON/OFF Switching	30 operation/min
Mechanically	-30°C to +85°C
Electrically	(No water condensation and no water drop)
Operating Ambient Temperature	40% to 85% RH
Operating Humidity	10 to 55Hz Single Amplitude 1.5mm
Vibration	490m/s ²
Shock	98m/s ²
Endurance	1 $\times$ 10 ⁷ ops. Min. (no load)
Error Operation	1 $\times$ 10 ⁵ ops. Min. (at rated coil voltage)
Life Expectancy	Abt. 3.5g.
Mechanically	UL & cUL
Electrically	E156521

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