



Automotive Relay TRM

MAIN FEATURES

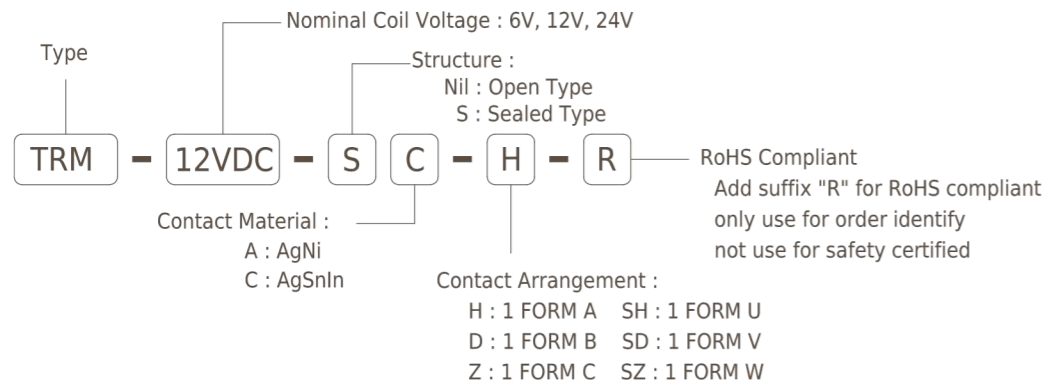
- Single CONTACT and double CONTACT Types offer switching capacity by 15A in small size for exclusive automobile control relay switching box use.
- PC board terminal
- Simple magnetic circuit to meet mass production for low cost offer. Standard type is open type without dust cover. If dust cover required, suitable cased relay can be prepared.
- Operating ambient temperature range covers from -40°C by 85°C at no current on relay's CONTACTS.



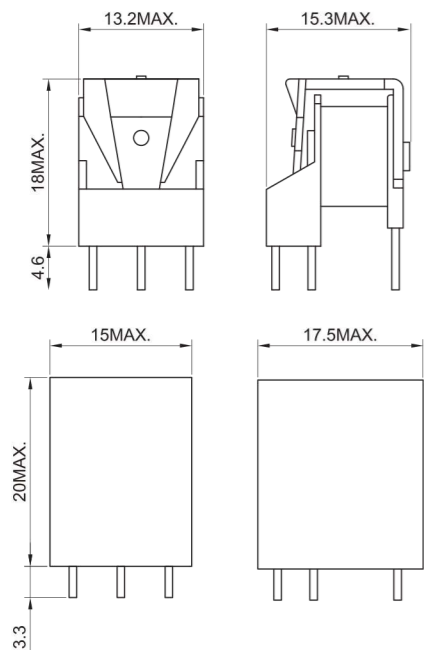
APPLICATIONS

- Car control switching box (alarm system, automatic door locking) wiper motor Reversing, window Lifter, Flashers or turning signals, Air conditioning, Fuel pump control system, etc.

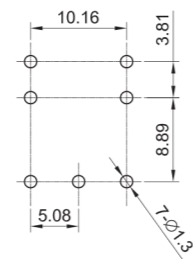
ORDERING INFORMATION



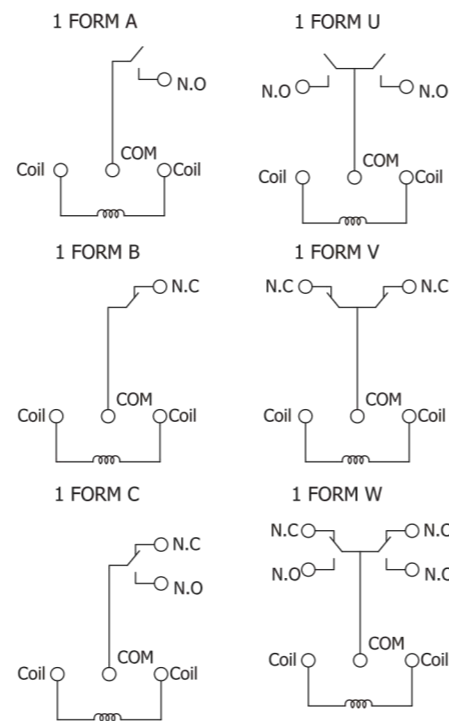
DIMENSION(unit:mm)



DRILLING(unit:mm)



WIRING DIAGRAM



COIL DATA CHART(at 20°C)

Coil Sensitivity	Coil Voltage Code	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω) ±10%	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max-Allowable Voltage (VDC)
TRM	6	6	215	28	1.3W	75% Max	10% Min	130%
	12	12	93	130	1.1W			
	24	24	46	520	1.1W			

CONTACT RATING

Item	TRM	
	SH(1U), SD(1V), SZ(1W)	H(1A), D(1B), Z(1C)
Contact Capacity Resistive Load (cosΦ=1)	2 x 10A 120VAC 2 x 10A 28VDC 2 x 20A 14VDC	10A/120VAC 10A/28VDC 20A/14VDC
Inductive Load (cosΦ=0.4 L/R=7msec)	2A/120VAC 5A/12VDC	1A/120VAC 3A/12VDC
Rated Carrying Current	10A	10A
Max. Allowable Voltage	380VAC, 75VDC	380VAC, 75VDC
Max. Allowable Current	10A	10A
Max. Allowable Power Force	2 x 1200VA, 2 x 280W	1200VA, 280W
Referenced Min. Applicable Load	5VDC 10mA	5VDC 10mA
Contact Material	Silver Alloy	

PERFORMANCE(at initial value)

Item	TRM
Contact Resistance	100mΩ Max.
Operation Time	6msec Max.
Release Time	3msec Max.
Dielectric Strength Between coil & contact Between contacts	500VAC 50/60Hz (1 minute) 1000VAC 50/60Hz (1 minute)
Surge Resistiveness	2000V (between coil & contact 1x40 usec)
Insulation Resistance	100 MΩ Min. (at5000VDC)
Max. ON/OFF Switching Mechanically Electrically	300 operation/min 30 operation/min
Operating Ambient Temperature	-40°C to +85°C (No water condensation and no water drop)
Operating Humidity	98% RH at 20°C
Coil Temperature Rise	60 deg. Max. (at rated coil voltage)
Vibration Endurance Error Operation	10 to 55Hz Double Amplitude 1.5mm 10 to 55Hz Double Amplitude 1.5mm
Shock Endurance Error Operation	100G Min. 10G Min.
Life Expectancy Mechanically Electrically	1 x 10 ⁷ ops. Min. (no load) 1 x 10 ⁵ ops. Min. (at rated coil voltage)
Weight	Abt. 12g. (sealed), 9g. (open Frame)

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