



# Automotive Relay TR20

## MAIN FEATURES

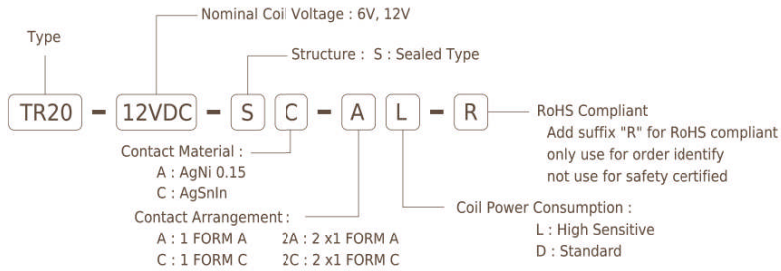
- Ultraminiaturized design, extremely light weight
- 30A maximum continuous current
- Twin relay in one housing available
- Suitable for motor reversing applications

## APPLICATIONS

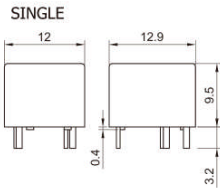
• Motor control	• Interval wiper control
• Lamp control	• Rear window and seat heating



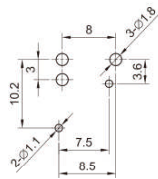
## ORDERING INFORMATION



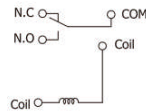
## DIMENSION(unit:mm)



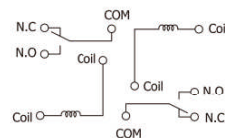
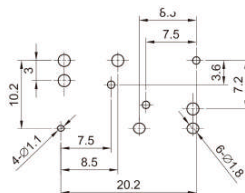
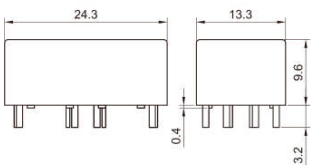
## DRILLING(unit:mm)



## WIRING DIAGRAM



## TWIN



## COIL DATA CHART(at 20°C )

Coil Sensitivity	Nominal Coil Voltage (VDC)Rated	Coil Resistance (Ω) ±10%	Power Consumption (W)	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Allowable Voltage (VDC)
Sensitivity	6	64	0.55	3.5	0.75	11
	12	254		6.9	1.5	20
Standard	6	45	0.8	3.5	0.75	11
	12	181		6.9	1.5	20

## CONTACT RATING

Item	TR20			
	1 Form A	1Form C	2 x 1 Form A	2 x 1 Form C
Contact Rating	30A/16VDC	NO: 30A/16VDC NC: 25A/16VDC	2x 30A/16VDC	NO : 30A/16VDC 2x NC : 25A/16VDC
Max. Switching Current	100A			
Make	30A			
Break	16VDC			
Max. Switching Voltage	16VDC			
Max. Continuous Current	N.O. : 30A / N.C. : 25A			
Min. Load	0.5A/12VDC			
Material	Silver Alloy			

## PERFORMANCE(at initial value)

Item	TRP20
Contact Resistance	100 mΩ Max.(at 0.1A 6VDC)
Operation Time	10ms typical.
Release Time	5ms typical.
Dielectric Strength	500Vrms (1 minute)
Insulation Resistance	100 MΩ (at 500VDC, 50%RH).
Drop Resistance	1M height drop on concrete
Ambient Temperature	Operating : -40°C to 105°C. Storage : -40°C to 155°C.
Operating Humidity	45 to 80% RH
Coil Temperature Rise	60 deg. Max. (at rated coil voltage)
Vibration Resistance	6G, 10 - 500Hz
Shock Resistance	30G, 6ms.
Power Consumption	Sensitivity : 0.55W approx Standard: 0.8W approx
Life Expectancy	Mechanically : 10 <sup>7</sup> ops. Electrically : 10 <sup>5</sup> ops.
Weight	Abt. 4g. (Twin Type : 8g.)

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