



TR20

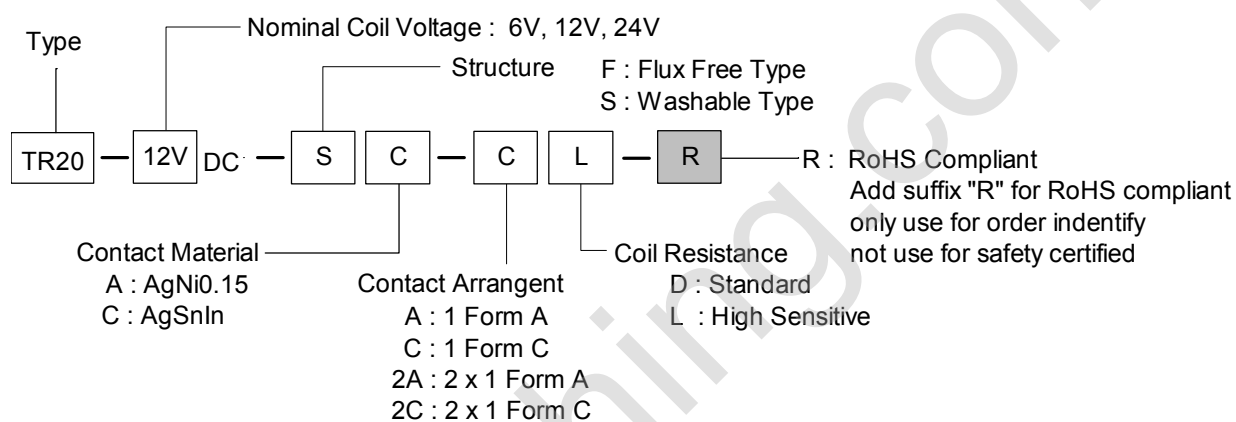
➤ MAIN FEATURES

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

➤ APPLICATIONS

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

➤ ORDERING INFORMATION

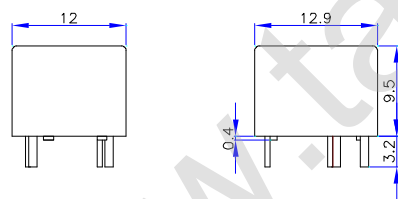


■ DIMENSION (unit:mm)

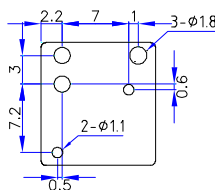
■ DRILLING (unit:mm)

■ WIRING DIAGRAM

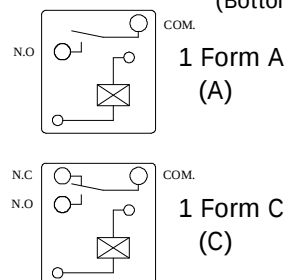
TR20



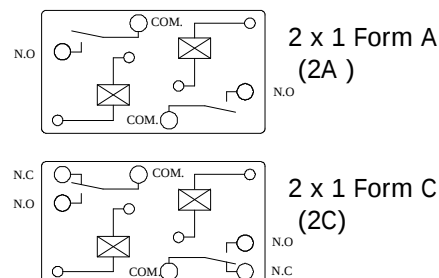
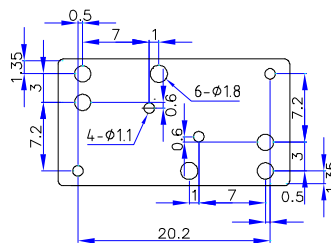
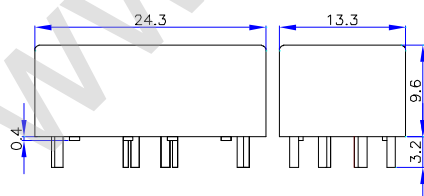
(Bottom views)



(Bottom views)



TR20 Twin



➤ COIL DATA CHART(at 20°C)

Coil Sensitivity	Nominal Coil Voltage (VDC)Rated	Coil Resistance (Ω) $\pm 10\%$	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
	24	1000		14	3	54.4
Standard	6	45	0.8	3.5	0.75	11
	12	181		6.9	1.5	20

➤ CONTACT RATING

Item	Type	TR20			
		1 Form A	1Form C	2 x 1 Form A	2 x 1 Form C
Contact Rating		30A 16VDC	NO: 30A16VDC NC: 25A16VDC	2 x 30A 16VDC	2 x NO: 30A 16VDC NC: 25A 16VDC
Max. Switching Current Make Break		100A 30A			
Max.Switching Voltage		16VDC			
Max.Continuous Current		N.O. : 30A / N.C. : 25A			
Min. Load		0.5A 12VDC			
Material		Ag Alloy			

➤ PERFORMANCE (at initial value)

Item	Type	TR20
Contact Resistance		100m Ω Max.(at 0.1A 6VDC)
Operation Time		10ms typical.
Release Time		5ms typical.
Dielectric Strength		500Vrms (1 minute)
Insulation Resistance		100 M Ω (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 ⁷ ops.
Electrically		10 ⁵ ops.
Weight		abt. 4 grs. (Twin Type : 8 grs.)

This datasheet for reference and subject to change without notice. Please double check final specification with Tai-Shing.
(0939AA08VOL01)