

## ■ Features

- Single coil type (TX1) and twin coil type (TX2) for bi-directional control of automobile motors
- High power, miniature design
- 30A, 16VDC switching current capacity
- Sealed for immersion cleaning

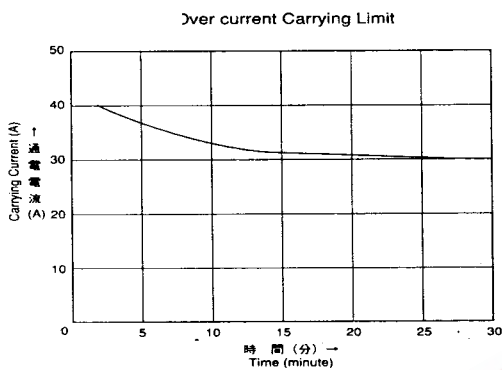
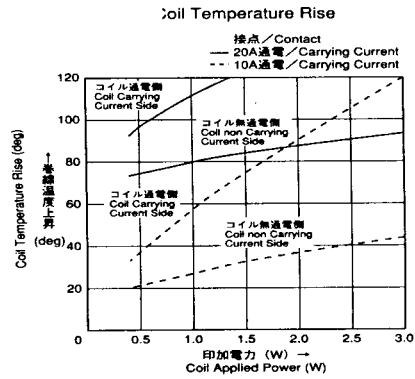
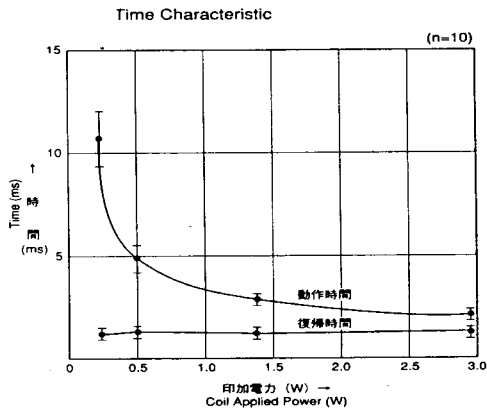
## ■ Coil Rating (All Coil Voltages 12VDC only) @ 20°C

| Part Number | Coil Resistance<br>( $\Omega \pm 10\%$ ) | Rated Power (W) | Pick-Up Voltage (VDC) | Drop-Out Voltage (VDC) |
|-------------|--|-----------------|-----------------------|------------------------|
| TX1-8       | 200                                      | 0.72            | 6.0                   | 0.8                    |
| TX1-9       | 250                                      | 0.58            | 6.75                  | 0.9                    |
| TX1-10      | 320                                      | 0.45            | 7.5                   | 1.0                    |
| TX2-8       | 200                                      | 0.72            | 6.0                   | 0.8                    |
| TX2-9       | 250                                      | 0.58            | 6.75                  | 0.9                    |
| TX2-10      | 320                                      | 0.45            | 7.5                   | 1.0                    |

## ■ Specifications

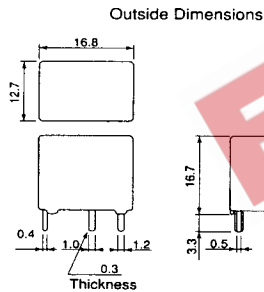
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|-------------------------|--|--|
| Contact Arrangement     | DPDT (1 Form C)  |  |
| Contact Material        | AgSnO <sub>2</sub>   |  |
| Rated Load              | 25A Motor Load 14 VDC  |  |
| Max. Switching Current  | 30A  |  |
| Max. Carrying Current   | 30A @ 20° C within 5 minutes   |  |
| Max. Switching Power    | 60W (DC) ; 125VA (AC)  |  |
| Contact Resistance      | Max. 50m Ohm (@ 6VDC 1A voltage drop method)   |  |
| Insulation Resistance   | Min. 100M Ohm (@ 500VDC)   |  |
| Dielectric Strength     | 1000VAC for 1 minute between open contacts<br>1000VAC for 1 minute between coil & contacts |  |
| Operate Time            | Max. 10ms (@ rated voltage)  |  |
| Release Time            | Max. 10ms (@ rated voltage)  |  |
| Operating Ambient Temp. | -40°C ~ +85°C  |  |
| Ambient Humidity        | 85% RH   |  |
| Vibration Resistance    | 10 to 400 Hz 4.4G  |  |
| Shock Resistance        | Min. 10G ( Shock wave 11ms)  |  |
| Life                    | Mechanical   | 10 x 10 operations (@ 300 ops/min)                                       |
|                         | Electrical   | 0.1 x 10 <sup>6</sup> ops (ON: 5 sec / OFF: 25 sec) 14VDC 25A motor load |
| Weight                  | TX1: Approx. 8g      TX2: Approx. 15g  |  |

## Characteristics

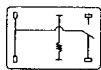


## Dimensions

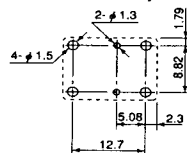
TX1



Wiring Diagrams

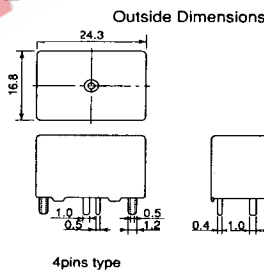


PC Board Pin Layout

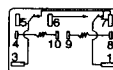


Bottom View

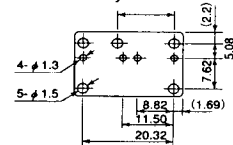
TX2



Wiring Diagrams

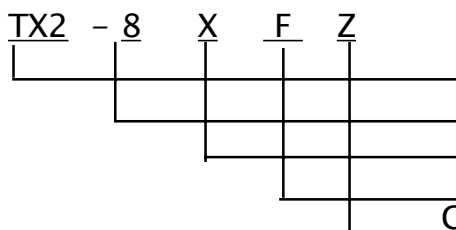


PC Board Pin Layout



Bottom View

## How to order



TX1: 1 Form C ; TX2: 2x1 Form C  
 Coil: 8=200ohm; 9=250ohm ; 10=320ohm  
 Contact Material: Blank=Standard ; X=Special  
 Coil Terminal: Blank= 3 pins ; F= 4 pins  
 Contact Terminals: Blank=Std (Common NC)  
 Z= NC contact is independent