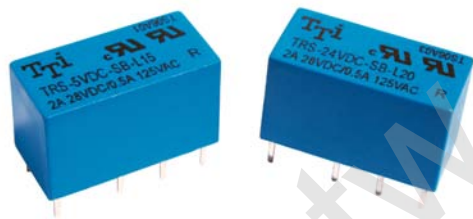




TRS

➤ MAIN FEATURES

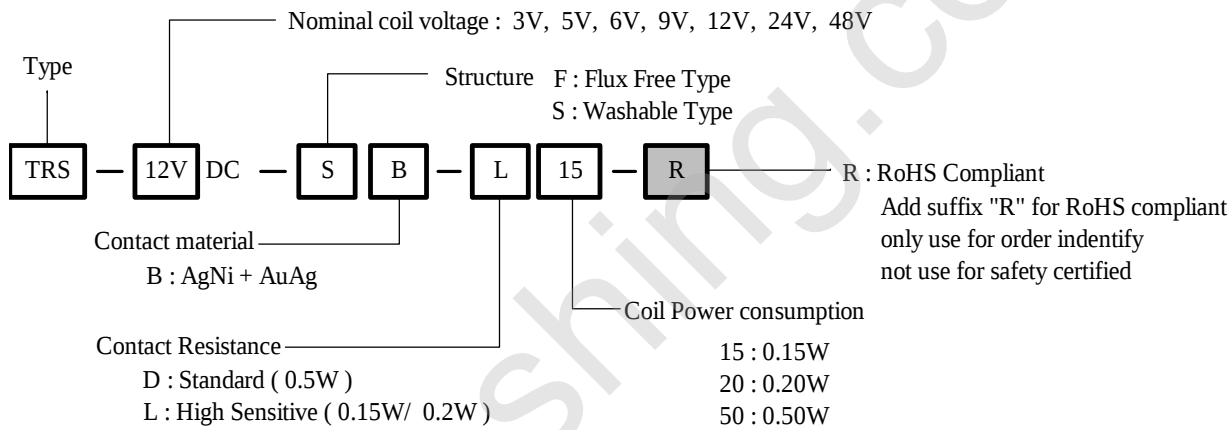
- 2 Form C (DPDT) bifurcated-cross-bar contacts.
- Gold Clad silver contact.
- Dip-2C type matching 16pin IC socket.
- Sealed type available.
- UL and CUL recognized.
- High sensitivity.
- Coil Power Consumption : 0.15 ~ 0.50W



➤ APPLICATIONS

- Telecommunication equipment, domestic appliances, office machines, audio equipment, etc.

➤ ORDERING INFORMATION

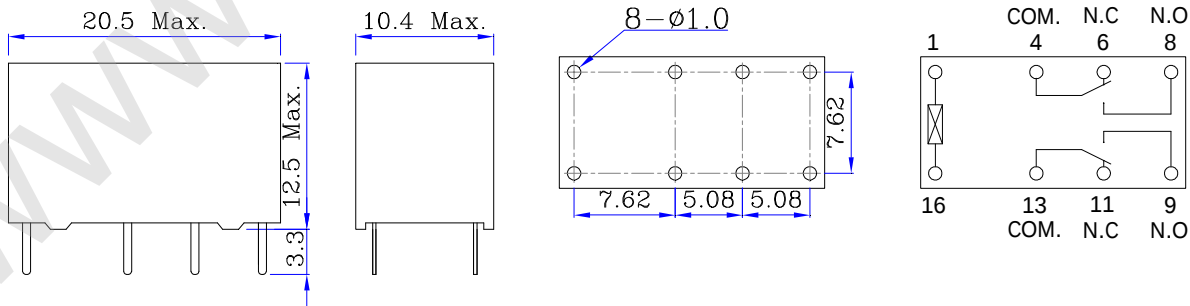


■ DIMENSION(unit:mm)

■ DRILLING(unit:mm)

■ WIRING DIAGRAM

(Bottom views)



Remark: 1.In case of no tolerance shown in dimension: ±0.5mm.  
2.The tolerance without indicating for DRILLING is always ±0.1mm.

## ➤ COIL DATA CHART(at 20°C)

| Coil Sensitivity             | Coil Voltage Code | Nominal Voltage (VDC) | Nominal Current (mA) | Coil Resistance $\pm 10\%(\Omega)$ | Power Consumption (W) | Pull-In Voltage (VDC) | Drop-Out Voltage (VDC) | Max-Allowable Voltage (VDC) |
|------------------------------|-------------------|-----------------------|----------------------|------------------------------------|-----------------------|-----------------------|------------------------|-----------------------------|
| TRS -L<br>(High sensitivity) | 3                 | 3                     | 43.5                 | 69 $\pm 7\Omega$                   | abt. 0.15W            | 80% Max.              | 5% Min.                | 150%                        |
|                              | 5                 | 5                     | 29.9                 | 167                                |                       |                       |                        |                             |
|                              | 6                 | 6                     | 25.0                 | 240                                |                       |                       |                        |                             |
|                              | 9                 | 9                     | 16.7                 | 540                                |                       |                       |                        |                             |
|                              | 12                | 12                    | 12.5                 | 960                                | abt. 0.2W             | 80% Max.              | 5% Min.                | 150%                        |
|                              | 3                 | 3                     | 66.7                 | 45                                 |                       |                       |                        |                             |
|                              | 5                 | 5                     | 40                   | 125                                |                       |                       |                        |                             |
|                              | 6                 | 6                     | 33.3                 | 180                                |                       |                       |                        |                             |
|                              | 9                 | 9                     | 22.2                 | 405                                |                       |                       |                        |                             |
|                              | 12                | 12                    | 16.7                 | 720                                |                       |                       |                        |                             |
|                              | 24                | 24                    | 8.3                  | 2880                               |                       |                       |                        |                             |
| TRS -D<br>(Standard)         | 48                | 48                    | 11.2                 | 4300                               | abt. 0.5W             | 80% Max.              | 5% Min.                | 150%                        |

## ➤ CONTACT RATING

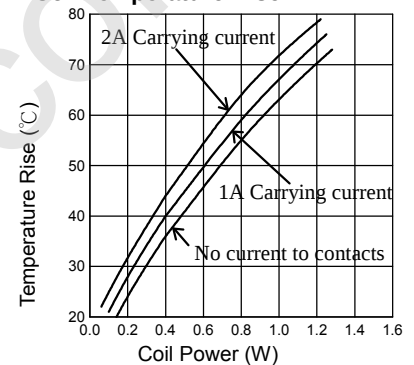
| Item                                                 | Type | TRS            |
|------------------------------------------------------|------|----------------|
| Contact Capacity                                     |      |                |
| Resistive Load ( $\cos\Phi=1$ )                      |      | 0.5A 125VAC    |
| Inductive Load<br>( $\cos\Phi = 0.4$ , L/R = 7msec.) |      | 2A 28VDC       |
| Rated Carrying Current                               |      | 2A             |
| Max. Allowable Voltage                               |      | 125VAC, 28VDC  |
| Max. Allowable Current                               |      | 2A             |
| Max. Allowable Power Force                           |      | 62.5VA, 56W    |
| Referenced Min.<br>Applicable Load                   |      | 100mVDC 0.1mA  |
| Contact Material                                     |      | AgPd + Au clad |

## ➤ PERFORMANCE (at initial value)

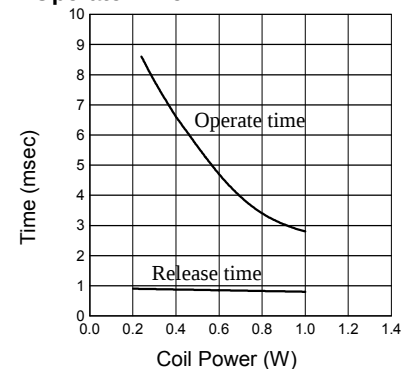
| Item                                                              | Type | TRS                                                                            |
|-------------------------------------------------------------------|------|--------------------------------------------------------------------------------|
| Contact Resistance                                                |      | 100m $\Omega$ Max.                                                             |
| Operation Time                                                    |      | 8msec Max.                                                                     |
| Release Time                                                      |      | 5msec Max.                                                                     |
| Dielectric Strength<br>Between coil & contact<br>Between contacts |      | 1000VAC 50/60Hz (1 minute)<br>500VAC 50/60Hz (1 minute)                        |
| Surge Resistiveness                                               |      | 1500V                                                                          |
| Insulation Resistance                                             |      | 1000 M $\Omega$ Min. (500VDC)                                                  |
| Max. ON/OFF Switching<br>Mechanically<br>Electrically             |      | 300 operation/min<br>30 operation/min                                          |
| Operating Ambient<br>Temperature                                  |      | -30°C to +70°C (No water condensation and no water drop)                       |
| Operating Humidity                                                |      | 45 to 85% RH                                                                   |
| Coil Temperature Rise                                             |      | 40 deg. Max. (at rated coil voltage)                                           |
| Vibration<br>Endurance<br>Error Operation                         |      | 10 to 55Hz Double Amplitude 1.5mm<br>10 to 55Hz Double Amplitude 1.5mm         |
| Shock<br>Endurance<br>Error Operation                             |      | 50g 11ms.<br>10g 11ms.                                                         |
| Life Expectancy<br>Mechanically<br>Electrically                   |      | 2 $\times 10^7$ ops. Min. (no load)<br>1 $\times 10^5$ ops. Min. (rating load) |
| Weight                                                            |      | abt. 4.8grs.                                                                   |
| UL & CUL                                                          |      | E156521                                                                        |

## ➤ REFERENCE DATA

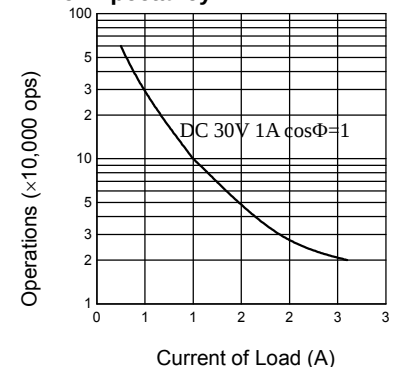
Coil Temperature Rise



Operate Time



Life Expectancy



This datasheet for reference and subject to change without notice. Please double check final specification with Tai-Shing.  
(1011AA08VOL01)