

804



»» Features

- Special design of automotive relays 30A/14VDC for Japanese car model.
- Optional to be equipped with diode or resistor.
- Plain cover or flange cover version both available.
- General purpose for air conditioning control, halogen head lamp control, horn control, fog lamp control, etc.
- Complies with RoHS-Directive 2011/65/EU and ELV-Directive 2000/53/EC.

»» Type List

| Terminal style | Contact form | Coil parallel with | Designation (provided with) | | |
|-----------------|--------------|--------------------|-----------------------------|-------------|---------------|
| | | | Dust cover | Sealed type | Mounting ears |
| Socket terminal | 1A (SPNO) | Blank | 804-1A-C | 804-1A-S | 804-1A-C1 |
| | | Resistor | 804-1A-C-R1 | 804-1A-S-R1 | 804-1A-C1-R1 |
| | | Resistor | 804-1A-C-R2 | 804-1A-S-R2 | 804-1A-C1-R2 |

»» Ordering Information

804 - 1A - C -
 1 2 3 4 5

- | | |
|---|---|
| <p>1. 804 -- Basic series designation</p> <p>2. 1A -- Single pole normally open</p> <p>3. C -- Dust cover C1 -- Mounting ears on cover V -- Sealed type S -- Sealed type washable</p> <p>4. Blank -- Standard type</p> | <p>R1 -- Coil parallel with 1/2W resistor for 12V 680Ω, 24V 2700Ω</p> <p>R2 -- Coil parallel with 1/2W resistor for 12V 820Ω, 24V 3200Ω</p> <p>D1 -- Coil parallel with diode 1N4007</p> <p>5. <input type="checkbox"/> -- Coil voltage (please refer to the coil rating data for the availability)</p> |
|---|---|

»» Contact Rating

| | |
|----------------|----------------------|
| Resistive load | 30A 12VDC, 15A 24VDC |
|----------------|----------------------|

»» Coil Rating (DC)

| Rated voltage | Rated current ±10 % at 23°C | | Coil resistance ±10 % at 23°C | | Max. continuous voltage at 85°C (1) | Pick up voltage (Max.) at 23°C | Drop out voltage (Min.) at 23°C | Power consumption at rated voltage | |
|---------------|-----------------------------|------------------|-------------------------------|------------------|-------------------------------------|--------------------------------|---------------------------------|------------------------------------|------------------|
| | without resistor | with R1 resistor | without resistor | with R1 resistor | | | | without resistor | with R1 resistor |
| 12V | 120 mA | 138 mA | 100 Ω | 87 Ω | 133 % of rated voltage | 65 % of rated voltage | 10 % of rated voltage | approx. 1.4W | approx. 1.7W |
| 24V | 60 mA | 69 mA | 400 Ω | 348 Ω | | 70 % of rated voltage | | | |

Note : (1) Without continuous contact current.

>>> Specification

| | | |
|--------------------------------------|--------------------------|---|
| Contact material | AgSnO alloy | |
| Contact voltage drop ⁽¹⁾ | Typ. 50mV at 10A | |
| Operate time ⁽¹⁾ | 10ms Max. | |
| Release time ⁽¹⁾ | 10ms Max. | |
| Insulation resistance ⁽¹⁾ | 50MΩ Min. (DC 500V) | |
| Dielectric strength ⁽¹⁾ | Between open contact | : AC 500V , 50/60Hz 1 min. |
| | Between contact and coil | : AC 500V , 50/60Hz 1 min. |
| Vibration resistance | Operating extremes | 10~500Hz , 5.0G |
| | Damage limits | 10~500Hz , 5.0G |
| Shock resistance | Operating extremes | 10G |
| | Damage limits | 100G |
| Life expectancy | Mechanical | 5,000,000 ops. Min. (frequency 18,000 ops./hr) |
| | Electrical | 100,000 ops. Min. (frequency 1,200 ops./hr) |
| Operating ambient temperature | -30~+85°C (no freezing) | |
| Weight | Approx. 35 g | |

Note : (1) Initial value. Operate and release time excluding contact bounce.

(2) Unless otherwise specified, all tests are under room temperature and humidity.

(3) Do not use the relay exceeding the coil rating, contact rating and life expectancy, or this may cause the risk of overheating.

(4) To assure optimum performance, avoid the relay from dropping, hitting, or other unnecessary shocks.

(5) Do not switch the contacts without any load as the contact resistance may become increased rapidly.

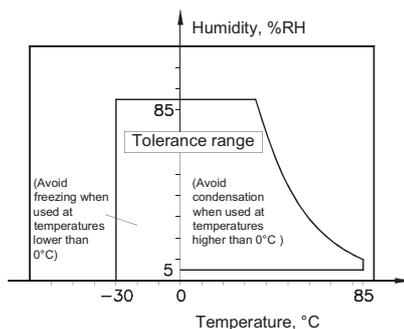
(6) Flux tight version is recommended. If there is cleaning process and sealed type is selected, the vent-hole should be removed after the process.

(7) Use suitable harnesses and bus bars according to the current as below :

30A type : Min. 6.0 mm²

(8) Usage, transport and storage conditions

- 1. Temperature: -30~+85°C
- 2. Humidity: 5 to 85% R.H.
- 3. Pressure: 86 to 106 kPa
- Furthermore, the humidity range varies with the temperature. So, use relays within the range indicated in the graph below.

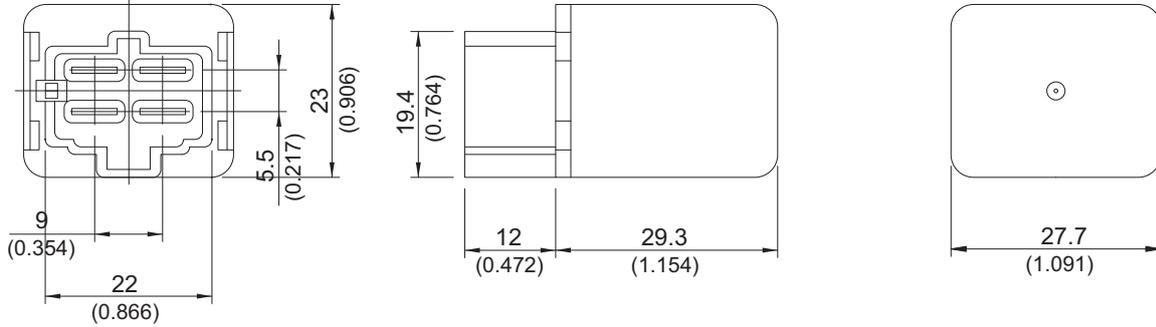


(9) Please contact Song Chuan for the detailed information.

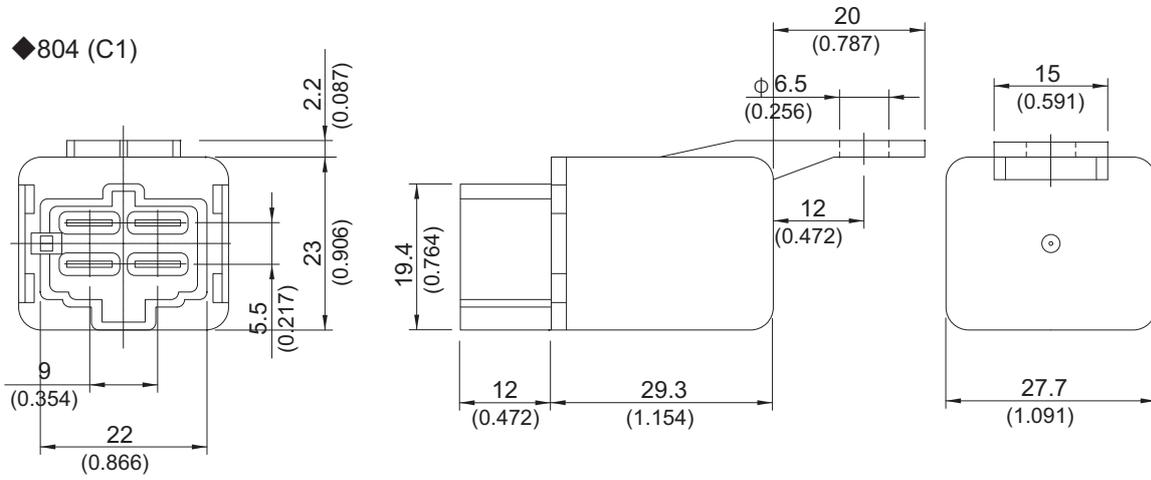
804

»» Outline Dimensions

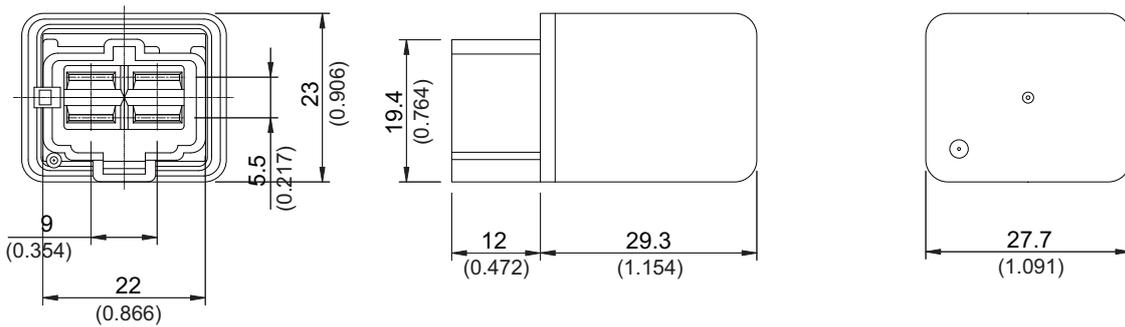
◆ 804 (C)



◆ 804 (C1)



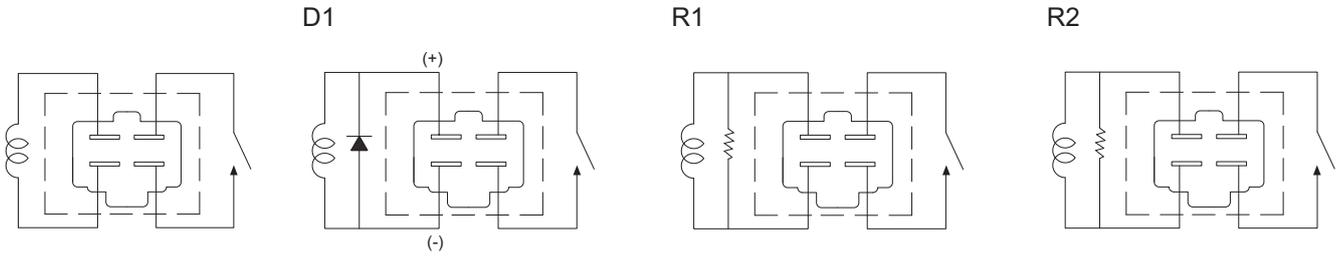
◆ 804 (S)



TOLERANCE:
 LESS THAN: 1(0.039) $\pm 0.1(0.004)$
 5(0.197) $\pm 0.3(0.012)$
 20(0.787) $\pm 0.5(0.020)$
 MORE THAN: 20(0.787) $\pm 1(0.039)$

»» Wiring Diagram

BOTTOM VIEW



»» Engineering Data

