

801H



勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)



### Features

- ☐ Miniature PCB sugar cube relay.
- ☐ High rating 10A/250VAC/30VDC & TV-8.
- ☐ Reverse contact terminal position version is available.
- ☐ Optional for sealed flux free & sealed washable types.
- ☐ Comply with RoHS-Directive 2011/65/EU.

### Type List

| Terminal style | Contact form | UL Insulation system approval | Designation (provided with) |                  |                      |
|----------------|--------------|-------------------------------|-----------------------------|------------------|----------------------|
|                |              |                               | Flux tight                  | Sealed type      | Sealed type washable |
| PCB terminal   | 1C<br>(SPDT) | -----                         | 801H-1C-C                   | 801H-1C-V        | 801H-1C-S            |
|                |              | F                             | 801H-1C-C FXXVDC            | 801H-1C-V FXXVDC | 801H-1C-S FXXVDC     |
|                | 1A<br>(SPNO) | -----                         | 801H-1A-C                   | 801H-1A-V        | 801H-1A-S            |
|                |              | F                             | 801H-1A-C FXXVDC            | 801H-1A-V FXXVDC | 801H-1A-S FXXVDC     |

### Ordering Information

801    H    -    1A    -    C    ☐ XXVDC  
 1       2       3       4       5       6

- |        |                                |          |                                                                             |
|--------|--------------------------------|----------|-----------------------------------------------------------------------------|
| 1. 801 | -- Basic series designation    | S        | -- Sealed type washable                                                     |
| 2. H   | -- High power type             | 5. Blank | -- Standard type                                                            |
| 3. 1A  | -- Single pole normally open   | F        | -- Class F                                                                  |
| 1B     | -- Single pole normally closed |          |                                                                             |
| 1C     | -- Single pole double throw    | 6. XXVDC | -- Coil voltage (please refer to the coil rating data for the availability) |
| 4. C   | -- Flux tight                  |          |                                                                             |
| V      | -- Sealed type                 |          |                                                                             |

### Contact Rating

|                |                                                    |
|----------------|----------------------------------------------------|
| Resistive load | 12A 125VAC <sup>(*)</sup> ; 10A 250VAC ; 10A 30VDC |
|----------------|----------------------------------------------------|

### Coil Rating (DC)

| Rated voltage (V) | Rated current ±10 % at 23°C (mA) | Coil resistance ±10 % at 23°C (Ω) | Max. continuous voltage at 85°C | Pick up voltage(Max.) at 23°C | Drop out voltage(Min.) at 23°C | Power consumption at rated voltage |
|-------------------|----------------------------------|-----------------------------------|---------------------------------|-------------------------------|--------------------------------|------------------------------------|
| 3                 | 120                              | 25                                | 160 % of rated voltage          | 75 % of rated voltage         | 10 % of rated voltage          | approx. 0.36W                      |
| 5                 | 73                               | 69                                |                                 |                               |                                |                                    |
| 6                 | 60                               | 100                               |                                 |                               |                                |                                    |
| 9                 | 40                               | 225                               |                                 |                               |                                |                                    |
| 12                | 30                               | 400                               |                                 |                               |                                |                                    |
| 18                | 20                               | 900                               |                                 |                               |                                |                                    |
| 24                | 15                               | 1600                              |                                 |                               |                                |                                    |
| 48                | 7.5                              | 6400                              |                                 |                               |                                |                                    |
| 60                | 6                                | 10000                             |                                 |                               |                                |                                    |

## »» Specification

|                                      |                                         |                                                                            |
|--------------------------------------|-----------------------------------------|----------------------------------------------------------------------------|
| Contact material                     | AgSnO alloy                             |                                                                            |
| Contact resistance <sup>(1)</sup>    | 50mΩ Max. (1A/6VDC by 4 pipes mΩ meter) |                                                                            |
| Operate time <sup>(1)</sup>          | 15ms Max.                               |                                                                            |
| Release time <sup>(1)</sup>          | 5ms Max.                                |                                                                            |
| Insulation resistance <sup>(1)</sup> | 100 MΩ Min. (DC 500V)                   |                                                                            |
| Dielectric strength <sup>(1)</sup>   | Between open contact                    | : AC 750V , 50/60Hz 1 min.                                                 |
|                                      | Between contact and coil                | : AC 1500V , 50/60Hz 1 min.                                                |
| Vibration resistance                 | Operating extremes                      | 10~50Hz , amplitude 1.0 mm                                                 |
|                                      | Damage limits                           | 10~50Hz , amplitude 1.0 mm                                                 |
| Shock resistance                     | Operating extremes                      | 10G                                                                        |
|                                      | Damage limits                           | 100G                                                                       |
| Life expectancy                      | Mechanical                              | 10,000,000 operations<br>(frequency 18,000 operations/hr)                  |
|                                      | Electrical                              | 100,000 operations (※50,000 operations)<br>(frequency 1,200 operations/hr) |
| Operating ambient temperature        | -40~+85°C (no freezing)                 |                                                                            |
| Weight                               | Approx. 16 g                            |                                                                            |

Note : (1) initial value

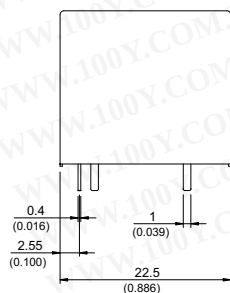
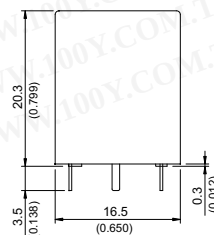
## »» Safety Approval

| Certified | UL / CUL | CSA     | TUV       |
|-----------|----------|---------|-----------|
| File No.  | E88991   | 1474287 | R09352399 |

## »» Safety Approval Rating

| UL / CUL         | CSA              | TUV        |
|------------------|------------------|------------|
| 15A 125VAC       | 15A 125VAC       | 10A 250VAC |
| 10A 250VAC       | 10A 250VAC       | 12A 125VAC |
| 10A 30VDC        | 10A 30VDC        | 10A 30VDC  |
| 1/2HP 125/250VAC | 1/2HP 125/250VAC |            |
| TV-3             | TV-3             |            |
| TV-8 (for 1A)    | TV-8 (for 1A)    |            |

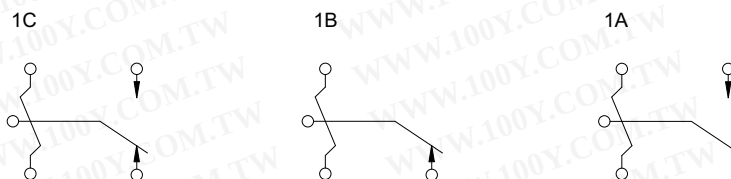
## »» Outline Dimensions



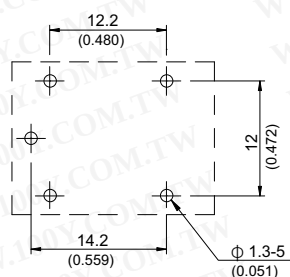
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## Wiring Diagram BOTTOM VIEW



## PC Board Layout BOTTOM VIEW



## Engineering Data

