

# NG8QN&NG8QW



16.0×12.5×14.4 16.0×25.5×14.4

## Features

- Small size, light weight.
- Low coil consumption.
- PC board mounting.
- Suitable for household electrical appliances, automobile system, window,wipe motor ,hours, doorlock.

## Ordering Information

**NG8QN C S 10 DC12V 0.69**

1 2 3 4 5 6

- 1 Part number: NG8QN NG8QW  
 2 Contact arrangement: C:1C; U:1U;  
 (NG8QW) 2C:2C,2U:2U  
 3 Enclosure: S: Sealed type; NIL: Dust cover  
 4 Contact rating: 15A,20A/14VDC  
 5 Coil rated voltage(V): DC:12  
 6 Coil power consumption: 0.69:0.69W

## Contact Data

|                                    |  |                            |                          |
|------------------------------------|--|----------------------------|--------------------------|
| Contact Arrangement                | 1C (SPDT(B-M)) ,1U (SPSTNODM) ,2C (DPDT) ,2U (DPSTNODM)  |                            |                          |
| Contact Material                   | AgCdO AgSnO <sub>2</sub>                                 |                            |                          |
| Contact Rating (resistive)         | 15A, 20A/14VDC<br>inrush current 30A (L/R=7mS; 15mS max) |                            |                          |
| Max. Switching Power               | 280W   |                            |                          |
| Max. Switching Voltage             | 16VDC  | Max. Switching Current:20A |                          |
| Contact Resistance or Voltage drop | <100mΩ   | Item 4.12 of IEC 61810-7   |                          |
|                                    | 250mV(at10A)   | Item 4.12 of IEC 61810-7   |                          |
| Operation life                     | Electrical   | 10 <sup>5</sup>            | Item 4.30 of IEC 61810-7 |
|                                    | Mechanical   | 10 <sup>7</sup>            | Item 4.31 of IEC 61810-7 |

## Coil Parameter

| Dash numbers | Coil voltage VDC |      | Coil resistance Ω ±10% | Pickup voltage VDC(max) (61%of rated voltage ) | Release voltage VDC(min) (7.5% of rated voltage) | Coil power consumption W | Operate Time ms | Release Time ms |
|--------------|------------------|------|------------------------|--|--|--------------------------|-----------------|-----------------|
|              | Rated            | Max. |                        |  |  |                          |                 |                 |
| 012-690      | 12               | 16   | 210                    | 7.3  | 0.9  | 0.69                     | <10             | <5              |
|              |                  |      |                        | 9.0(at 80℃)                                    |  |                          |                 |                 |

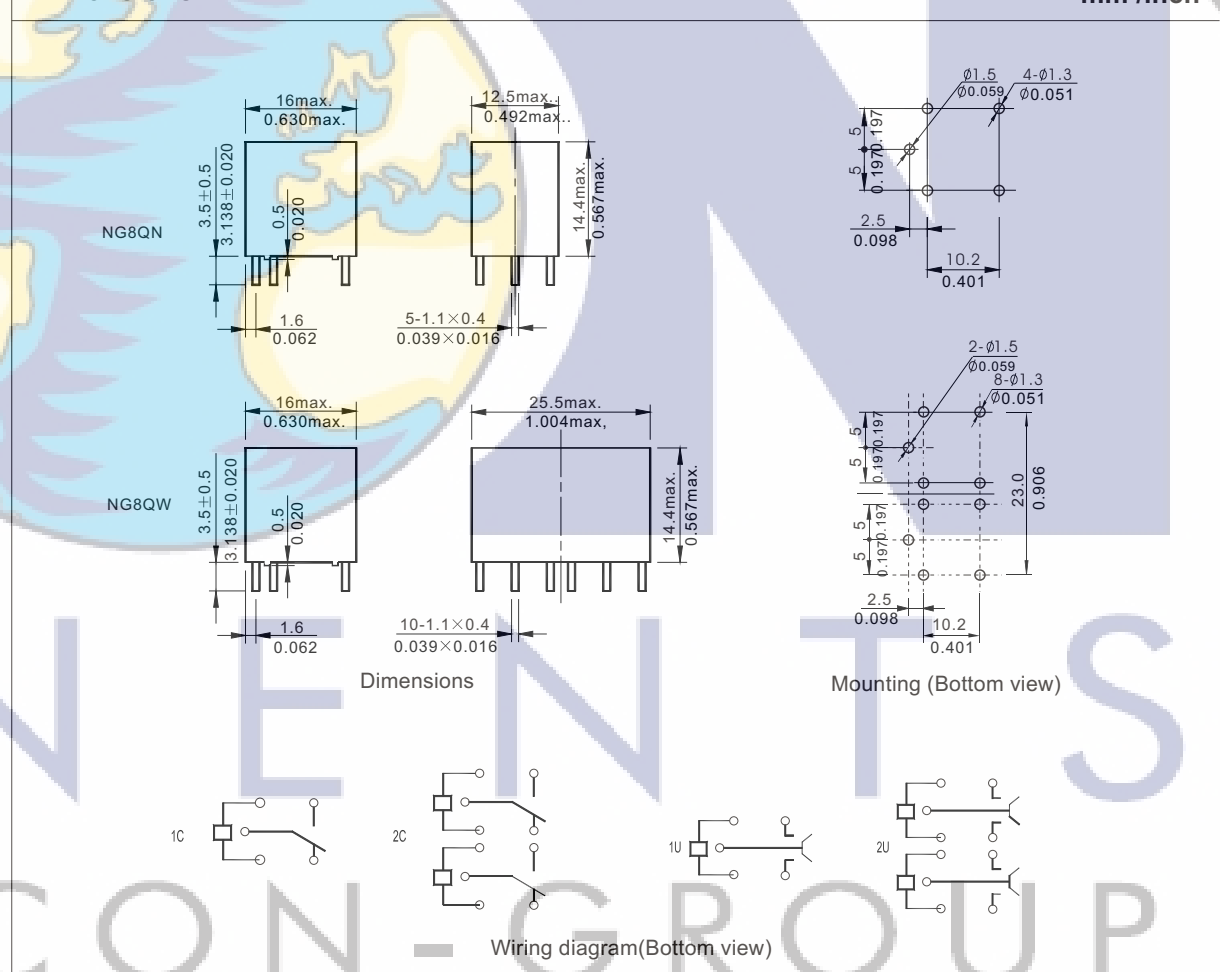
**CAUTION:** 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
 2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

## Operation condition

|                          |                                  |                              |
|--------------------------|----------------------------------|------------------------------|
| Insulation Resistance    | 100MΩ min (at 500VDC)            | Item 7 of IEC 60255-5        |
| Dielectric Strength      | 50Hz 500V                        | Item 6 of IEC 60255-5        |
| Between contacts         | 50Hz 500V                        | Item 6 of IEC 60255-5        |
| Between contact and coil |                                  |                              |
| Shock resistance         | 100m/s <sup>2</sup> 11ms         | IEC 68-2-27 Test Ea          |
| Vibration resistance     | 10Hz~55Hz double amplitude 1.5mm | IEC 68-2-6 Test Fc           |
| Terminals strength       | 5N                               | IEC 68-2-21 Test Ua1         |
| Solderability            | 235℃ ± 2℃ 3s ± 0.5s              | IEC 68-2-20 Test Ta method 1 |
| Ambient Temperature      | -40℃~105℃                        |                              |
| Relative Humidity        | 85% (at 40℃)                     | IEC 68-2-3 Test Ca           |
| Mass                     | 5.5g (NG8QW:11g)                 |                              |

## Dimensions

mm /inch



NOTES 1).Dimensions are in millimeters.  
 2).Inch equivalents are given for general information only.