

# 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                                | 4 Contact rating: 15A,20A/14VDC      |
| 2 Contact arrangement: C:1C; U:1U;<br>(NG8QW) 2C:2C,2U:2U | 5 Coil rated voltage(V): DC:12       |
| 3 Enclosure: S: Sealed type; NIL: Dust cover              | 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 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℃)				

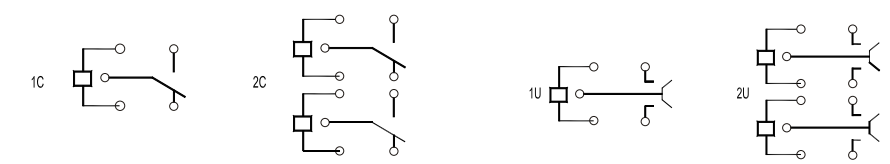
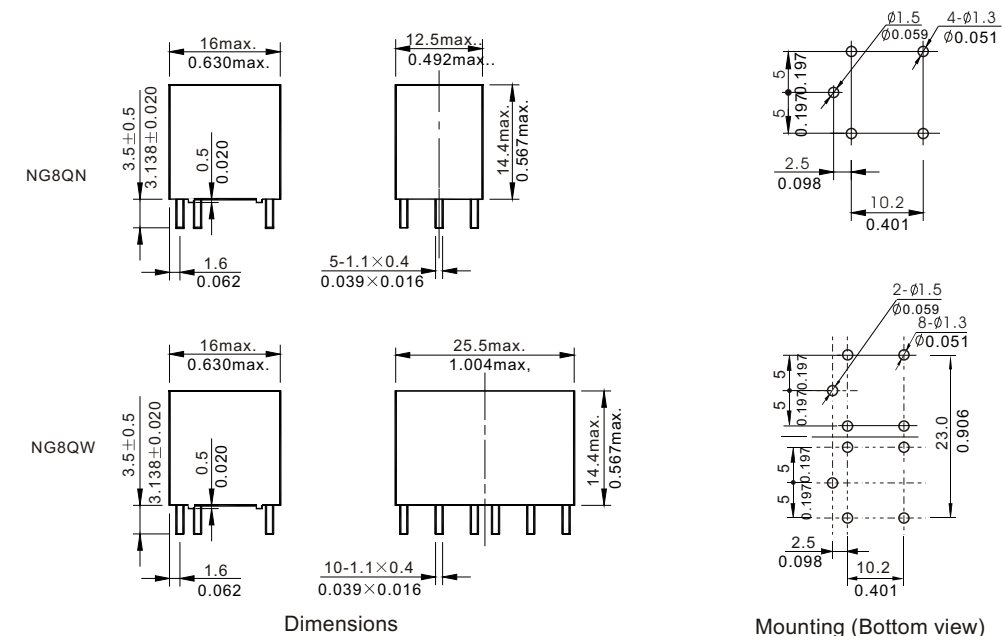
**CAUTION:** 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

### 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



Wiring diagram(Bottom view)

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