

# NG8ND



14.5×14.1×14.0

Features	
<ul style="list-style-type: none"> <li>• Compact size.</li> <li>• DPDP(B-M) contacts with internal H-bridge.</li> <li>• Switching capacity up to 25A motor lock load.</li> <li>• High performance PCB relay.</li> <li>• Suitable for household electrical appliances, automation system.</li> </ul>	

Ordering Information	
<b>NG8ND 2S C DC12V 0.80</b> 1            2            3            4            5	
1 Part number: NG8ND 2 Sensitivity: 2:Standard; 2S:High sensitivity 2L:High temperature (105℃) 2H:High temperature/High sensitivity	3 Contact arrangement: C:2×1C (H-Bridge) 4 Coil rated voltage(V): DC:12 5 Coil power consumption: 0.64:0.64W; 0.80:0.80W

Contact Data	
Contact Arrangement	2×1C (DPDT(B-M)) (H-Bridge)
Contact Material	AgSnO <sub>2</sub>
Contact Current	25A motor lock (14VDC)
Max. Switching Power	480W
Max. Switching Voltage	16VDC                      Max. Switching Current:30A
Contact Resistance or Voltage drop	< 250mV (at 10A)            Item 4.12 of IEC 61810-7
Operation life	Electrical            10 <sup>6</sup> Item 4.30 of IEC 61810-7
	Mechanical        10 <sup>6</sup> Item 4.31 of IEC 61810-7

Coil Parameter								
Model	Coil voltage VDC		Coil resistance Ω ±10%	Pickup voltage VDC(max)	Release voltage VDC(min) (8.3% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
2	12	16	225	7.2	1.0	0.64		
2S	12	16	180	6.5	1.0	0.80	<10	<5
2L	12	16	225	7.2	1.0	0.64		
2H	12	16	180	6.5	1.0	0.80		

**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 61810-5
Dielectric Strength	50Hz 500V	Item 6 of IEC 61810-5
Between contacts	50Hz 500V	Item 6 of IEC 61810-5
Between contact and coil		
Shock resistance	Function 100m/s <sup>2</sup> 11ms Survival 1000m/s <sup>2</sup> 11ms	IEC68-2-27 Test Ea
Vibration resistance	10Hz~500Hz Function&Survival Acceleration:45m/s <sup>2</sup>	IEC68-2-6 Test Fc
Terminals strength	5N	IEC68-2-21 Test Ua1
Solderability	235℃ ± 2℃ 3 ± 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~105℃	
Relative Humidity	85% (at 40℃)	IEC68-2-3 Test Ca
Mass	7.5g	

### Dimensions

mm /inch

The technical drawings include:
 

- Dimensions:** Two side views of the relay. The left view shows a height of 14.5mm max and a width of 14.1mm max. Terminal dimensions are specified as 2-1.2x0.3 (0.047x0.012) and 4-0.6x0.3 (0.024x0.012).
- Mounting (Bottom view):** A top-down view of the relay's base showing 4 mounting holes with a diameter of 1.6mm (0.063 inches) and a pitch of 1.5mm (0.059 inches). Other dimensions include 3.2mm, 0.126mm, 0.118mm, 0.370mm, 9.4mm, 12.4mm, 0.488mm, 0.252mm, and 0.059mm.
- Wiring diagram (Bottom view):** A schematic showing the internal H-bridge connection between terminals 1, 2, 3, 4, 5, 6, 7, and 8.

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