# NG8ND

14.5×14.1×14.0

## Features

- Compact size.
- DPDP(B-M) contacts with internal H-bridge.
- Switching capacity up to 25A motor lock load.
- High performance PCB relay.
- Suitable for household electrical appliances, automation system.

## Ordering Information

| NG8ND | 2S | C | DC12V | 0.80 |
|---|---|---|---|---|
| 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 | | $AgSnO_2$ | |
| 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 | $10^5$ | Item 4.30 of IEC 61810-7 |
| | Mechanical | $10^6$ | 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 | ≤10 | ≤5 |
| 2S | 12 | 16 | 180 | 6.5 | 1.0 | 0.80 | | |
| 2L | 12 | 16 | 225 | 7.2 | 1.0 | 0.64 | | |
| 2H | 12 | 16 | 180 | 6.5 | 1.0 | 0.80 | | |

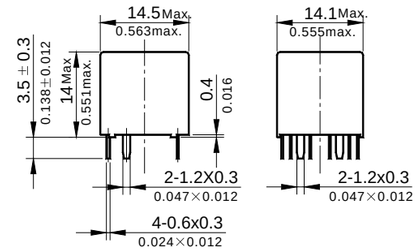
**CAUTION:** 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

## Operation condition

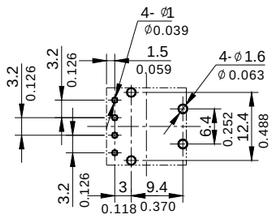
| | | |
|---|---|---|
| Insulation Resistance | 100MΩ min (at 500VDC) | Item 7 of IEC 60255-5 |
| Dielectric Strength<br>Between contacts<br>Between contact and coil | <br>50Hz 500V<br>50Hz 500V | <br>Item 6 of IEC 60255-5<br>Item 6 of IEC 60255-5 |
| Shock resistance | Function 100m/s² 11ms<br>Survival 1000m/s² 11ms | IEC 68-2-27Test Ea |
| Vibration resistance | 10Hz~500Hz Function&Survival<br>Acceleration:45m/s² | IEC 68-2-6 Test Fc |
| Terminals strength | 5N | IEC 68-2-21 Test Ua1 |
| Solderability | 235℃ ±2℃ 3±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 | 7.5g | |

## Dimensions

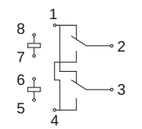
mm /inch




Dimensions




Mounting (Bottom view)




Wiring diagram
(Bottom view)

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