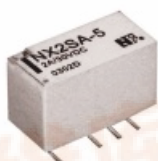
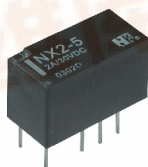
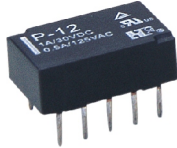


**DB ELECTRO**

Présente / Presents:

**NINGBO HUAGUAN ELECTRONICS CO.,LTD.**





14.0×9.0×5.0



E158859 R5604271  
Patent No: 02217796.5

# P

## Features

- DIL Pitch Terminals .High Sensitivity :0.14W or0.10W Nominal Power.
- Conforms to FCC Part 68 1.5kV Surge and Dielectric 1000VAC.
- Monostable or bistable relays Single and double Coil magnet latching Type available.
- Application for Telecommunication Equipment,Office Equipment,Security Alarm Systems, Measuring instruments, Medical Monitoring Equipment,Audio Visual Equipment, Flight Simulator,Sensor Control.

## Ordering Information

**P** **L** **12** **W**  
**1** **2** **3** **4**

1 Part number: P  
2 Operating function: NIL: Single Side Stable;  
L:1 Coil Latching; K:2 Coil Latching  
3 Coil rated voltage(V): DC:3,4,5,6,9,12,24  
4 Contact material: NIL: AgPd; W: AgNi

## Contact Data

|                                    |                                                      |                                                         |                                                    |
|------------------------------------|------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|
| Contact Arrangement                | 2C (DPDT(B-M)) (Bifurcated Crossbar)                 |                                                         |                                                    |
| Contact Material                   | AgPd(Stationary Contact: Gold clad ) AgNi(Gold clad) |                                                         |                                                    |
| Contact Rating (resistive)         | 1A,2A/30VDC; 0.5A/125VAC                             |                                                         |                                                    |
| Max. Switching Power               | 60W                                                  | 62.5VA                                                  | Min. Switching load: 0.01mA/10mV (Reference Value) |
| Max. Switching Voltage             | 220VDC                                               | 250VAC                                                  | Max. Switching Current:2A                          |
| Contact Resistance or Voltage drop | ≤50mΩ                                                |                                                         | Item 3.12 of IEC255-7                              |
| Operation life                     | Electrical                                           | 1A/30VDC: 2×10 <sup>5</sup> (Ag Ni: 1×10 <sup>5</sup> ) |                                                    |
|                                    | Mechanical                                           | 0.5A/125VAC: 1×10 <sup>5</sup>                          |                                                    |
|                                    |                                                      | 10 <sup>8</sup>                                         | Item 3.30 of IEC255-7                              |

## CAUTION:

Relays previously tested or used above 10mA resistive at 6V maximum (DC or peak AC) open circuit are not recommended for subsequent use in low level applications.

## Coil Parameter

| Dash numbers    | Coil voltage VDC |       | Coil resistance Ω ±10% | Pick up voltage VDC(max) (75% of rated voltage ) | Release voltage VDC(min) (10% of rated voltage) | Coil power W | Operate Time ms | Release /Reset Time ms |
|-----------------|------------------|-------|------------------------|--------------------------------------------------|-------------------------------------------------|--------------|-----------------|------------------------|
|                 | Rated            | Max.  |                        |                                                  |                                                 |              |                 |                        |
| P-003           | 3                | 7.5   | 64.3                   | 2.25                                             | 0.3                                             | 0.14         | Approx.2        | Approx.1               |
| P-004           | 4.5              | 11.25 | 144.6                  | 3.38                                             | 0.45                                            | 0.14         |                 |                        |
| P-005           | 5                | 12.5  | 178                    | 3.75                                             | 0.5                                             | 0.14         |                 |                        |
| P-006           | 6                | 15.0  | 257                    | 4.50                                             | 0.6                                             | 0.14         |                 |                        |
| P-009           | 9                | 22.5  | 579                    | 6.75                                             | 0.9                                             | 0.14         |                 |                        |
| P-012           | 12               | 30.0  | 1028                   | 9.00                                             | 1.2                                             | 0.14         |                 |                        |
| P-024           | 24               | 48.0  | 2880                   | 18.0                                             | 2.4                                             | 0.20         |                 |                        |
| 1 Coil Latching |                  |       |                        |                                                  | Reset(Max)                                      |              |                 | Reset                  |
| PL-003          | 3                | 8.7   | 90                     | 2.25                                             | -2.25                                           | 0.10         | Approx.2        | Approx.1               |
| PL-004          | 4.5              | 13.0  | 202.5                  | 3.38                                             | -3.38                                           | 0.10         |                 |                        |
| PL-005          | 5                | 14.5  | 250                    | 3.75                                             | -3.75                                           | 0.10         |                 |                        |
| PL-006          | 6                | 17.4  | 360                    | 4.50                                             | -4.50                                           | 0.10         |                 |                        |
| PL-009          | 9                | 26.1  | 810                    | 6.75                                             | -6.75                                           | 0.10         |                 |                        |
| PL-012          | 12               | 34.8  | 1440                   | 9.00                                             | -9.00                                           | 0.10         |                 |                        |
| PL-024          | 24               | 57.6  | 3840                   | 18.0                                             | -18.0                                           | 0.15         |                 |                        |
| 2 Coil Latching |                  |       | Set Coil               | Reset Coil                                       | Reset(Max)                                      |              |                 | Reset                  |
| PK-003          | 3                | 6     | 45                     | 45                                               | 2.25                                            | 2.25         | Approx.2        | Approx.1               |
| PK-004          | 4.5              | 9     | 101                    | 101                                              | 3.38                                            | 3.38         |                 |                        |
| PK-005          | 5                | 10    | 125                    | 125                                              | 3.75                                            | 3.75         |                 |                        |
| PK-006          | 6                | 12    | 180                    | 180                                              | 4.50                                            | 4.50         |                 |                        |
| PK-009          | 9                | 18    | 405                    | 405                                              | 6.75                                            | 6.75         |                 |                        |
| PK-012          | 12               | 24    | 720                    | 720                                              | 9.00                                            | 9.00         |                 |                        |
| PK-024          | 24               | 36    | 1920                   | 1920                                             | 18.0                                            | 18.0         |                 |                        |

**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(reset) voltage are for test purposes only and are not to be used as design criteria.

3.When latching relays are installed in equipment, the latch and reset coil should not be pulsed simultaneously. Coil should not be pulsed with less than the nominal coil voltage and pulse width should be a minimum of three times the specified operate time of the relay. If these conditions are not followed, it is possible for the relay to be in the magnetically neutral position .