# PSR

## RELAYS WITH FORCIBLY GUIDED CONTACT

## TECHNICAL SPECIFICATIONS

| TYPE | | SAFETY RELAY |
|---|---|---|
| TERMINAL TYPE | | Plug-In |
| CONTACT CONFIGURATION | | 2 NO+2NC & 3 NO+1NC |
| RATED CARRYING CURRENT (RESISTIVE) AT 30 VDC / 250 VAC | | 6 A |
| CONTACT MATERIAL | | Silver Alloy |
| INITIAL CONTACT RESISTANCE (MAX) | | 100 mΩ Max |
| COIL NOMINAL VOLTAGES | DC | 12-24 V |
| OPERATING POWER (MIN-MAX) FOR DC COIL | | 360 mW |
| DIELECTRIC STRENGTH | BETWEEN OPEN CONTACT | 1500 VAC |
| | COIL TO CONTACT | 4000 VAC |
| INSULATION RESISTANCE AT 500 VDC AT 27˚C & 65% RH | | 1000 MΩ |
| OPERATE TIME (MAX) | | 20 ms |
| RELEASE TIME (MAX) | | 20 ms |
| AMBIENT TEMPERATURE | | -40˚C To +85˚C |
| ELECTRICAL LIFE (NO OF OPERATIONS) | | $10^5$ |
| MECHANICAL LIFE (NO OF OPERATIONS) | | $10^7$ |
| FORCIBLY GUIDED CONTACTS TYPE (ACC TO EN50205) | | TYPE A |
| ALL DIMENSIONS ARE IN mm (W x L x H) | | 13 X 40 X 24 |
| MAX WEIGHT IN GRAMS | | Approx 20 gms |


## SALIENT FEATURES

- Multi-contact arrangements
- Forcibly guided contacts
- 6A switching capability
- Low input power 360mW
- High insulation capability: 10kv surge voltage between input and output
- UL insulation system: Class F available

## COIL – DATA (ALL VALUES AT 27˚C ± 2˚AMBIENT, COLD START)

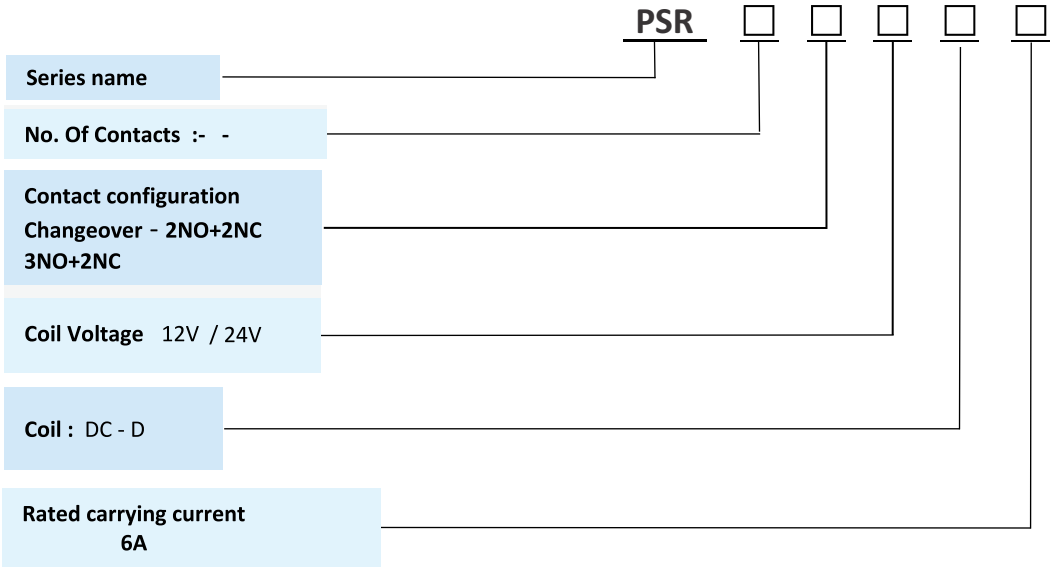
| NOMINAL VOLTAGE | RESISTANCE IN OHM'S ± 10% | MUST OPERATE VOLTAGE | MUST RELEASE VOLTAGE | OPERATING POWER FOR DC COIL (W) |
|---|---|---|---|---|
| 12 | 400 | 9.0 | 1.2 | 0.36 |
| 24 | 1.6k | 18.0 | 2.4 | 0.36 |

## APPLICATIONS

- Elevator circuits
- Escalator circuit
- Safety door controls
- Emergency handle lever

**NOTE :-** 1) Recommended socket :- PSRS
2) All Specification/Dimensions subject to Tolerance.
3) Gold plated contacts available with extra charges.
4) Any techno commercial changes is/are prerogative of manufacturer / management of the company which can be done without any notice.

## ORDERING CODE FOR RELAY

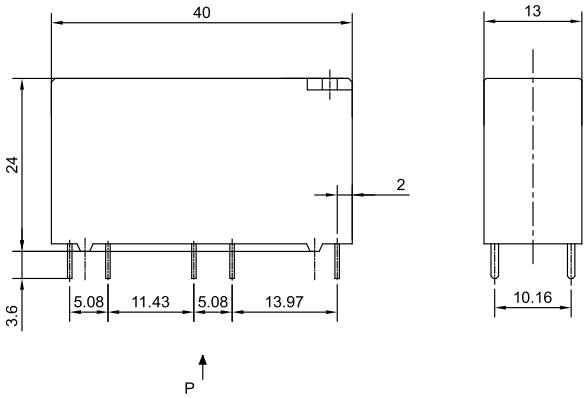



## DIMENSIONS

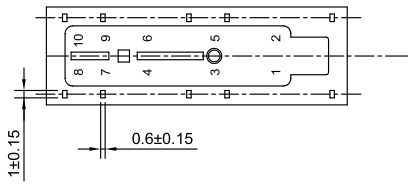
SAFETY RELAY

Unit : mm

### Outline Dimension



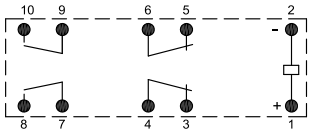

P Direction



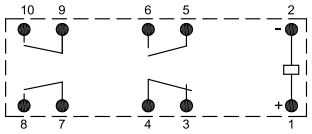

### Wiring Diagram

(Bottom View)

2NO + 2 NC

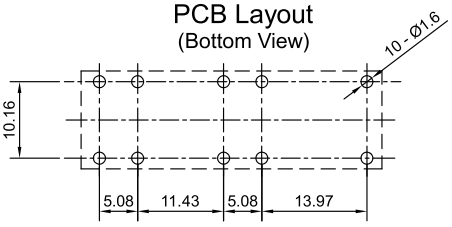



3NO + 1 NC




### PCB Layout

(Bottom View)




**NOTE :-**

1) In case no tolerance shown in outline dimensions:
   Outline dimension 1mm, tolerance should be ±0.2mm
   Outline dimension 1mm and 5mm, tolerance should be ±0.3mm
   Outline dimension 5mm tolerance should be ±0.4mm
2) The tolerance without indicating for PCB layout is always ±0.2mm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