

SERIES: PR4 | DESCRIPTION: POWER RELAY

FEATURES

- 5V/12V/24V
- SPST
- 450 mW

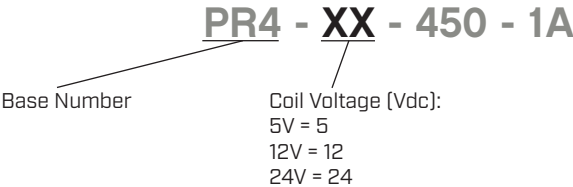


MODEL

|                | coil<br>voltage<br>typ<br>(Vdc) | coil<br>resistance<br><br>( $\Omega \pm 10\%$ ) | operating voltage<br><br>min<br>(Vdc) | release<br>voltage<br>max<br>(Vdc) | coil<br>power<br>max<br>(mW) |
|----------------|---------------------------------|-------------------------------------------------|---------------------------------------|------------------------------------|------------------------------|
| PR4-5V-450-1A  | 5                               | 55.6                                            | 3.5                                   | 0.5                                | 450                          |
| PR4-12V-450-1A | 12                              | 320                                             | 8.4                                   | 1.2                                | 450                          |
| PR4-24V-450-1A | 24                              | 1,280                                           | 16.8                                  | 2.4                                | 450                          |

Notes: 1. All specifications are measured at 23°C unless otherwise specified.

PART NUMBER KEY



CONTACT SPECIFICATIONS

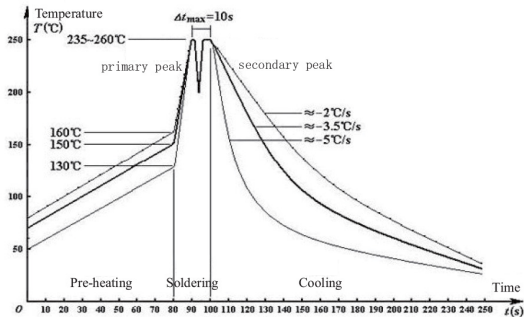
| parameter             | conditions/description        | min | typ                   | max          | units                    |
|-----------------------|-------------------------------|-----|-----------------------|--------------|--------------------------|
| contact form          | 1 Form A                      |     |                       |              |                          |
| contact material      | Ag alloy                      |     |                       |              |                          |
| contact rating        | 5 A @ 250 Vac<br>5 A @ 30 Vdc |     |                       |              |                          |
| contact resistance    | at 6 Vdc, 1.0 A               |     |                       | 100          | mΩ                       |
| max switching voltage |                               |     |                       | 277<br>30    | Vac<br>Vdc               |
| max switching current |                               |     |                       | 5            | A                        |
| max switching power   |                               |     |                       | 1,250<br>150 | VA<br>W                  |
| min switching load    | 5 Vdc, 100 mA                 |     |                       |              |                          |
| life                  | electrical<br>mechanical      |     | 100,000<br>10,000,000 |              | operations<br>operations |

GENERAL SPECIFICATIONS

| parameter             | conditions/description                                                                          | min   | typ            | max | units                                |
|-----------------------|-------------------------------------------------------------------------------------------------|-------|----------------|-----|--------------------------------------|
| insulation resistance | at 500 Vdc                                                                                      | 1,000 |                |     | MΩ                                   |
| dielectric strength   | between open contacts for 1 minute<br>between coil and contacts for 1 minute                    |       | 1,000<br>4,000 |     | Vac<br>Vac                           |
| operate time          |                                                                                                 |       |                | 10  | ms                                   |
| release time          |                                                                                                 |       |                | 5   | ms                                   |
| shock resistance      | endurance<br>misoperation                                                                       |       | 1,000<br>100   |     | m/s <sup>2</sup><br>m/s <sup>2</sup> |
| vibration resistance  | endurance: 10~55 Hz, 1.5 mm double amplitude<br>misoperation: 10~55 Hz, 1.5 mm double amplitude |       |                |     |                                      |
| operating temperature |                                                                                                 | -40   |                | 85  | °C                                   |
| humidity              | at 40°C                                                                                         | 35    |                | 95  | %RH                                  |
| weight                |                                                                                                 |       | 6.0            |     | g                                    |
| safety approvals      | UL/cUL 508                                                                                      |       |                |     |                                      |
| flammability rating   | UL94V-0                                                                                         |       |                |     |                                      |
| RoHS                  | yes                                                                                             |       |                |     |                                      |
| packaging             | box: 100 pcs per box<br>carton size: 284 x 250 x 180 mm<br>carton QTY: 1,000 pcs per carton     |       |                |     |                                      |

SOLDERABILITY

| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| hand soldering | for 3.5±0.5 seconds    | 340 | 350 | 360 | °C    |
| wave soldering | for 10±1 seconds       | 255 | 260 | 265 | °C    |



Double-wave Soldering Curve



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 08/15/2022 |
| 1.01 | CUI Devices rebranded to Same Sky | 09/12/2024 |

The revision history provided is for informational purposes only and is believed to be accurate.



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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