# PSR-SPP- 24DC/URM4/5X1/2X2/B - Extension module

1442342

https://www.phoenixcontact.com/in/products/1442342

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1- or 2-channel contact extension, 5 N/O contacts, 1 N/C contact, 1 confirmation current path, together with basic device up to Cat. 4 PL e in accordance with EN ISO 13849 safe isolation, width: 22.5 mm, pluggable Push-in terminal block

## Your advantages

- 1- and 2-channel control
- Up to Cat. 4/PL e in accordance with EN ISO 13849-1, SIL 3 in accordance with EN IEC 62061, SIL 3 in accordance with IEC 61508

## Commercial data

| | |
|---|---|
| Item number | 1442342 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | ***** |
| Product key | DNA152 |
| GTIN | 4063151824723 |
| Weight per piece (including packing) | 199.2 g |
| Weight per piece (excluding packing) | 176.34 g |
| Customs tariff number | 85371098 |
| Country of origin | DE |

## Technical data

### Notes

Note on application

| | |
|---|---|
| Note on application | Only for industrial use |

### Product properties

| | |
|---|---|
| Product type | Safety relays |
| Product family | PSRclassic |
| Application | Extension module |
| Control | 1 and 2 channel |
| Mechanical service life | 10x $10^6$ cycles |
| Relay type | Electromechanical relay with force-guided contacts in accordance with IEC/EN 61810-3 |

Insulation characteristics

| | |
|---|---|
| Overvoltage category | III |
| Degree of pollution | 2 |

Times

| | |
|---|---|
| Typ. starting time with $U_s$ | < 25 ms (with Us / when controlled via A1) |
| Typical release time | < 20 ms (with Us / when controlled via A1) |
| Recovery time | < 1 s |

### Electrical properties

| | |
|---|---|
| Maximum power dissipation for nominal condition | 16.6 W ($U_S$ = 26.4 V, $I_L^2$ = 72 A², $P_{Total\ max}$ = 2.2 W + 14.4 W) |
| Nominal operating mode | 100% operating factor |
| Rated insulation voltage | 250 V |
| Rated surge voltage/insulation | See data sheet, section “Insulation coordination”. |

### Input data

Digital: A1

| | |
|---|---|
| Description of the input | safety-related |
| Number of inputs | 1 |
| Input voltage range "1" signal | 19.2 V ... 26.4 V |
| Max. permissible overall conductor resistance | 25 Ω |
| Protective circuit | Suppressor diode |
| Current consumption | typ. 75 mA |

### Output data

Relay: Enabling current paths (23/24 ... 63/64)

| | |
|---|---|
| Output description | 2 N/O contacts each in series, safety-related, floating |
| Number of outputs | 5 |

| | |
|---|---|
| Contact switching type | 5 enabling current paths |
| Contact material | $AgSnO_2$ |
| Switching voltage | min. 10 V |
| | max. 250 V AC/DC |
| Switching power | min. 100 mW |
| Inrush current | min. 10 mA |
| | max. 20 A (≤ 100 ms) |
| Switching capacity | 3 A (AC15) |
| | 5 A (DC13) |
| Limiting continuous current | 6 A (observe derating) |
| Sq. Total current | 72 $A^2$ (observe derating) |
| Switching frequency | max. 1 Hz |
| Mechanical service life | 10x $10^6$ cycles |
| Output fuse | 10 A gL/gG |
| | 4 A gL/gG (for low-demand applications) |

Relay: Signaling current path (71/72)

| | |
|---|---|
| Output description | 2 N/C contacts parallel, non-safety-related, floating |
| Number of outputs | 1 |
| Contact switching type | 1 signaling current path |
| Contact material | $AgSnO_2$ |
| Switching voltage | min. 5 V AC/DC |
| | max. 250 V AC/DC |
| Switching power | min. 50 mW |
| Inrush current | min. 10 mA |
| | max. 6 A |
| Switching capacity | 1.5 A (AC15) |
| | 5 A (DC13) |
| Limiting continuous current | 6 A |
| Sq. Total current | 36 $A^2$ |
| Switching frequency | max. 1 Hz |
| Mechanical service life | 10x $10^6$ cycles |
| Output fuse | 6 A (gL/gG) |

Relay: Confirmation current path (11/12)

| | |
|---|---|
| Output description | Diagnostic contact, 2 NC in series, floating |
| Number of outputs | 1 |
| Contact switching type | 1 confirmation current path |
| Contact material | $AgSnO_2$ |
| Switching voltage | min. 10 V |
| | max. 250 V AC/DC |
| Switching power | min. 100 mW |
| Inrush current | min. 10 mA |
| | max. 6 A |
| Switching capacity | 1.5 A (AC15) |