

PSR-SCP-42-230UC/URM4/4NO/2NC - Extension module



2702924

<https://www.phoenixcontact.com/us/products/2702924>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



1- or 2-channel contact extension with wide range input, 4 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, plug-in screw terminal block, width: 22.5 mm

Product description

The URM4 contact extension device enables safety-related signals to be further processed as floating contacts for an input voltage range of 42 to 230 V AC/DC. The contact extension device specifically covers the operating range above a nominal voltage of 24 V.

The new device is approved in accordance with EN 50156 and can therefore be used in furnaces without any additional effort. In particular when used in conjunction with the corresponding PSR safety relay as a basic device, safety circuits up to PL e or SIL 3 can be implemented.

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2702924 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN01 |
| Product key | DNA151 |
| GTIN | 4055626429106 |
| Weight per piece (including packing) | 184.45 g |
| Weight per piece (excluding packing) | 164.22 g |
| Customs tariff number | 85371098 |
| Country of origin | DE |

PSR-SCP-42-230UC/URM4/4NO/2NC - Extension module



2702924

<https://www.phoenixcontact.com/us/products/2702924>

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 | < 100 ms (with U _s / when controlled via A1) |
| Typical release time | < 40 ms (Control via A1 at 42 V DC) |
| | < 200 ms (Control via A1 at 230 V AC) |
| Recovery time | < 1 s |

Electrical properties

| | |
|---|---|
| Maximum power dissipation for nominal condition | 16.1 W (at I _L ² = 72 A ² , P _{Total max} = 1.7 W + 14.4 W) |
| Nominal operating mode | 100% operating factor |
| Rated insulation voltage | 250 V AC |
| Rated surge voltage/insulation | |

Supply

| | |
|---|---|
| Rated control circuit supply voltage U _S | 42 V AC/DC -15 % / +10 % |
| | 230 V AC/DC -15 % / +10 % |
| Rated control supply current I _S | typ. 35 mA (At 42 V DC) |
| | typ. 15 mA (at 230 V AC) |
| Power consumption at U _S | 1.5 W (with DC) |
| | 1.7 W (with AC) |
| Apparent power | max. 3.5 VA (at U _S) |
| Inrush current | < 20 A (Δt = 100 μs at U _S) |
| Protective circuit | Surge protection; 275 V varistor / 411 V suppressor diode |

Output data

Relay: Enabling current paths (13/14, 23/24, 33/34, 43/44)

PSR-SCP-42-230UC/URM4/4NO/2NC - Extension module



2702924

<https://www.phoenixcontact.com/us/products/2702924>

| | |
|-----------------------------|--|
| Output description | 2 N/O contacts in series, safety-related, floating |
| Number of outputs | 4 |
| Contact switching type | 4 enabling current paths |
| 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. 8 A |
| Switching capacity | 5 A (AC15) 6 A (DC13) |
| Limiting continuous current | 6 A (observe derating) |
| Sq. Total current | 72 A ² (observe derating) |
| Switching frequency | max. 0.5 Hz |
| Mechanical service life | 10x 10 ⁶ cycles |
| Output fuse | 6 A gL/gG (High demand) 4 A gL/gG (Low demand) |

Relay: Diagnostics contact (51/52)

| | |
|-----------------------------|------------------------------------|
| Output description | 2 N/O contacts in series, floating |
| Number of outputs | 1 |
| Contact switching type | 1 confirmation 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 A (AC15) 1 A (DC13) |
| Limiting continuous current | 1 A (see to derating) |
| Sq. Total current | 1 A ² (see to derating) |
| Switching frequency | max. 0.5 Hz |
| Mechanical service life | 10x 10 ⁶ cycles |
| Output fuse | 1 A (gL/gG) |

Relay: Signaling current path (61/62)

| | |
|--------------------|--------------------------------------|
| Output description | 2 N/C contacts in parallel, floating |
| Number of outputs | 1 |
| Contact material | AgSnO ₂ |
| Switching voltage | min. 5 V AC/DC 250 V AC/DC |
| Switching power | min. 50 mW |
| Inrush current | max. 6 A |
| Switching capacity | 5 A (AC15) |

PSR-SCP-42-230UC/URM4/4NO/2NC - Extension module



2702924

<https://www.phoenixcontact.com/us/products/2702924>

| | |
|-----------------------------|--------------------------------------|
| | 6 A (DC13) |
| Limiting continuous current | 6 A (observe derating) |
| Sq. Total current | 36 A ² (observe derating) |
| Switching frequency | max. 0.5 Hz |
| Mechanical service life | 10x 10 ⁶ cycles |
| Output fuse | 1 A (gL/gG) |

Connection data

Connection technology

| | |
|-----------|-----|
| pluggable | yes |
|-----------|-----|

Conductor connection

| | |
|----------------------------------|---|
| Connection method | Screw connection |
| Conductor cross-section rigid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 24 ... 12 |
| Stripping length | 7 mm |
| Screw thread | M3 |

Signaling

| | |
|---------------------------|-----------------|
| Operating voltage display | 1 x LED (green) |
|---------------------------|-----------------|

Dimensions

| | |
|--------|----------|
| Width | 22.5 mm |
| Height | 99 mm |
| Depth | 114.5 mm |

Material specifications

| | |
|------------------|-------------------|
| Color (Housing) | yellow (RAL 1018) |
| Housing material | PA |

Characteristics

Safety data

| | |
|----------------------------|---|
| Stop category (EN 60204-1) | 0 |
|----------------------------|---|

Safety data: EN ISO 13849

| | |
|------------------------|--|
| Performance level (PL) | e (In conjunction with suitable evaluating device) |
|------------------------|--|

Safety data: IEC 61508 - High demand

| | |
|------------------------------|--|
| Safety Integrity Level (SIL) | 3 (In conjunction with suitable evaluating device) |
|------------------------------|--|

Safety data: IEC 61508 - Low demand

| | |
|------------------------------|--|
| Safety Integrity Level (SIL) | 3 (In conjunction with suitable evaluating device) |
|------------------------------|--|

Safety data: EN IEC 62061

| | |
|------------------------------|--|
| Safety Integrity Level (SIL) | 3 (In conjunction with suitable evaluating device) |
|------------------------------|--|

PSR-SCP-42-230UC/URM4/4NO/2NC - Extension module



2702924

<https://www.phoenixcontact.com/us/products/2702924>

Environmental and real-life conditions

Ambient conditions

| | |
|--|---|
| Degree of protection | IP20 |
| Min. degree of protection of inst. location | IP54 |
| Ambient temperature (operation) | -20 °C ... 55 °C (observe derating) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Maximum altitude | ≤ 2000 m (Above sea level) |
| Max. permissible humidity (storage/transport) | 75 % (on average, 85% infrequently, non-condensing) |
| Max. permissible relative humidity (operation) | 75 % (on average, 85% infrequently, non-condensing) |
| Shock | 15g |
| Vibration (operation) | 10 Hz ... 150 Hz, amplitude 0.15 mm, 2g |

Approvals

CE

| | |
|----------------|--------------|
| Identification | CE-compliant |
|----------------|--------------|

Mounting

| | |
|-------------------|------------------------|
| Mounting type | DIN rail mounting |
| Assembly note | See derating curve |
| Mounting position | vertical or horizontal |

PSR-SCP-42-230UC/URM4/4NO/2NC - Extension module



2702924

<https://www.phoenixcontact.com/us/products/2702924>

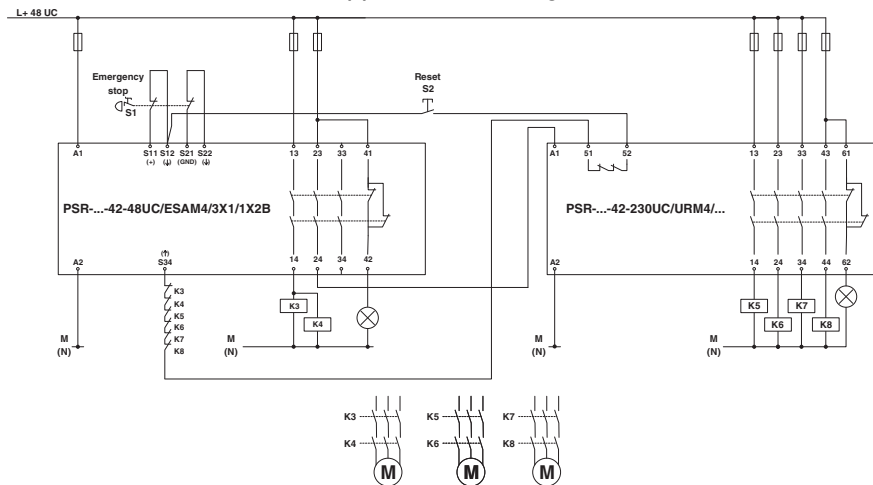
Drawings

Application drawing



Contact extension

Application drawing



Two-channel emergency stop monitoring with contact extension

PSR-SCP-42-230UC/URM4/4NO/2NC - Extension module



2702924

<https://www.phoenixcontact.com/us/products/2702924>



Block diagram

PSR-SCP-42-230UC/URM4/4NO/2NC - Extension module



2702924

<https://www.phoenixcontact.com/us/products/2702924>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2702924>



cULus Listed

Approval ID: E140324



Functional Safety

Approval ID: 968/EZ 575.03/23

PSR-SCP-42-230UC/URM4/4NO/2NC - Extension module



2702924

<https://www.phoenixcontact.com/us/products/2702924>

Classifications

ECLASS

| | |
|-------------------|----------|
| ECLASS-13.0 | 27371819 |
| ECLASS-15.0 | 27371819 |
| ECLASS-15.0 ASSET | 27250101 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001449 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39122200 |
|-------------|----------|

PSR-SCP-42-230UC/URM4/4NO/2NC - Extension module



2702924

<https://www.phoenixcontact.com/us/products/2702924>

Environmental product compliance

EU RoHS

| | |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 7(c)-I |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 4402ce01-e576-442d-9398-f62b9a52a5fe |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 3.345 kg CO2e |
|---------|---------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com