

PSR-SCP- 24UC/URM/5X1/2X2 - Coupling relay



2963747

<https://www.phoenixcontact.com/us/products/2963747>

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.



Safe coupling relay with force-guided contacts, 5 N/O contacts, 2 N/C contacts, 1-channel, plug-in screw terminal block, width: 22.5 mm

Your advantages

- Suitable up to category 1, PL c (EN ISO 13849-1), SIL 1 (EN IEC 62061), SIL 1 (IEC 61508)
- Safe readback due to force-guided signal contact in accordance with EN 50205
- Easy proof test according to IEC 61508 thanks to integrated signal contact
- 1 or 2-channel control
- 5 enabling current paths, 2 confirmation current paths

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2963747 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN01 |
| Product key | DNA162 |
| GTIN | 4017918482145 |
| Weight per piece (including packing) | 172.24 g |
| Weight per piece (excluding packing) | 150 g |
| Customs tariff number | 85364900 |
| Country of origin | DE |

PSR-SCP- 24UC/URM/5X1/2X2 - Coupling relay



2963747

<https://www.phoenixcontact.com/us/products/2963747>

Technical data

Notes

Note on application

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

Product properties

| | |
|-------------------------|--|
| Product type | Coupling relay |
| Product family | PSRclassic |
| Application | Safe switch off High demand Low demand |
| 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 | II |
| Degree of pollution | 2 |

Times

| | |
|--|---|
| Typ. starting time with U _s | typ. 20 ms (with U _s / when controlled via A1) |
| Typical release time | typ. 20 ms (At U _s /on demand via A1) |
| Restart time | < 1 s (Boot time) |
| Recovery time | < 500 ms |

Electrical properties

| | |
|---|--|
| Maximum power dissipation for nominal condition | 8.56 W (at U _B = 26.4 V DC, U _S = 24 V, I _S = 47 mA, n = 1, I _L ² = 72 A ² , R _{contact} = 0.1 Ω _{max}) |
| Nominal operating mode | 100% operating factor |
| Rated insulation voltage | 250 V |
| Rated surge voltage/insulation | Safe isolation 4 kV between all current paths and housing |

Supply

| | |
|---|--|
| Rated control circuit supply voltage U _S | 24 V AC/DC -15 % / +10 % |
| Rated control supply current I _S | typ. 47 mA |
| Power consumption at U _S | typ. 1.2 W |
| Inrush current | typ. 350 mA DC (Δt < 1 μs at U _S) typ. 350 mA AC (Δt = 2 ms at U _S) |
| Protective circuit | Surge protection Varistor |

Output data

PSR-SCP- 24UC/URM/5X1/2X2 - Coupling relay



2963747

<https://www.phoenixcontact.com/us/products/2963747>

Relay: Enabling current paths (13/14, 23/24, 33/34, 43/44, 53/54)

| | |
|--|---|
| Number of outputs | 5 |
| Contact switching type | 5 enabling current paths |
| Contact material | AgSnO ₂ |
| Switching voltage | min. 5 V AC/DC |
| | max. 230 V AC/DC |
| Switching power | min. 50 mW |
| Inrush current | min. 10 mA |
| | max. 6 A |
| Switching capacity | 3 A (24 V (DC13)) |
| | 3 A (230 V (AC15)) |
| Switching capacity (360/h cycles) | 4 A (24 V (DC13)) |
| | 4 A (230 V (AC15)) |
| Limiting continuous current | 6 A |
| Sq. Total current | 72 A ² |
| Switching frequency | max. 0.5 Hz |
| Interrupting rating (ohmic load) max. | 144 W (N/O contact, 24 V DC, τ = 0 ms) |
| | 288 W (N/O contact, 48 V DC, τ = 0 ms) |
| | 240 W (N/O contact, 60 V DC, τ = 0 ms) |
| | 110 W (N/O contact, 110 V DC, τ = 0 ms) |
| | 88 W (N/O contact, 220 V DC, τ = 0 ms) |
| | 1380 VA (N/O contact, 230 V AC, τ = 0 ms) |
| Maximum interrupting rating (inductive load) | 42 W (N/O contact, 24 V DC, τ = 40 ms) |
| | 42 W (N/O contact, 48 V DC, τ = 40 ms) |
| | 42 W (N/O contact, 60 V DC, τ = 40 ms) |
| | 42 W (N/O contact, 110 V DC, τ = 40 ms) |
| | 42 W (N/O contact, 220 V DC, τ = 40 ms) |
| Output fuse | 10 A gL/gG NEOZED |
| | 4 A gL/gG NEOZED (Low demand) |

Relay: Signaling current path (61/62, 71/72)

| | |
|-----------------------------------|---------------------------|
| Number of outputs | 2 |
| Contact switching type | 2 signaling current paths |
| Contact material | AgSnO ₂ |
| Switching voltage | min. 5 V AC/DC |
| | max. 230 V AC/DC |
| Switching power | min. 50 mW |
| Inrush current | min. 10 mA |
| | max. 6 A |
| Switching capacity | 3 A (24 V (DC13)) |
| | 3 A (230 V (AC15)) |
| Switching capacity (360/h cycles) | 4 A (24 V (DC13)) |
| | 4 A (230 V (AC15)) |
| Limiting continuous current | 3 A |

PSR-SCP- 24UC/URM/5X1/2X2 - Coupling relay



2963747

<https://www.phoenixcontact.com/us/products/2963747>

| | |
|---------------------|-------------------|
| Sq. Total current | 72 A ² |
| Switching frequency | max. 0.5 Hz |
| Output fuse | 6 A gL/gG NEOZED |

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 |
| Tightening torque | 0.6 Nm |

Signaling

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

Dimensions

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

Safety data: IEC 61508 - High demand

| | |
|------------------------------|---|
| Safety Integrity Level (SIL) | 1 |
|------------------------------|---|

Safety data: IEC 61508 - Low demand

| | |
|------------------------------|---|
| Safety Integrity Level (SIL) | 1 |
|------------------------------|---|

Safety data

| | |
|------------------------------|---|
| Safety Integrity Level (SIL) | 1 |
|------------------------------|---|

Environmental and real-life conditions

PSR-SCP- 24UC/URM/5X1/2X2 - Coupling relay



2963747

<https://www.phoenixcontact.com/us/products/2963747>

Ambient conditions

| | |
|--|---|
| Degree of protection | IP20 |
| Min. degree of protection of inst. location | IP54 |
| Ambient temperature (operation) | -20 °C ... 55 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Maximum altitude | max. 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 (In the event of stress caused by shock, contact reactions are possible for up to 1 ms.) |
| Vibration (operation) | 10 Hz ... 150 Hz, 2g (In the event of stress caused by vibration, contact reactions are possible for up to 1 ms.) |

Approvals

CE

| | |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

Mounting

| | |
|-------------------|-------------------|
| Mounting type | DIN rail mounting |
| Mounting position | any |

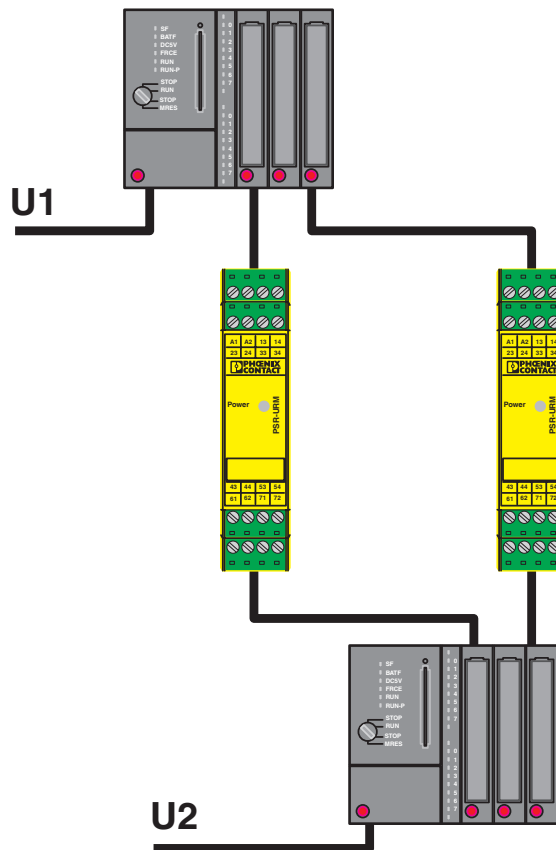
PSR-SCP- 24UC/URM/5X1/2X2 - Coupling relay

2963747

<https://www.phoenixcontact.com/us/products/2963747>

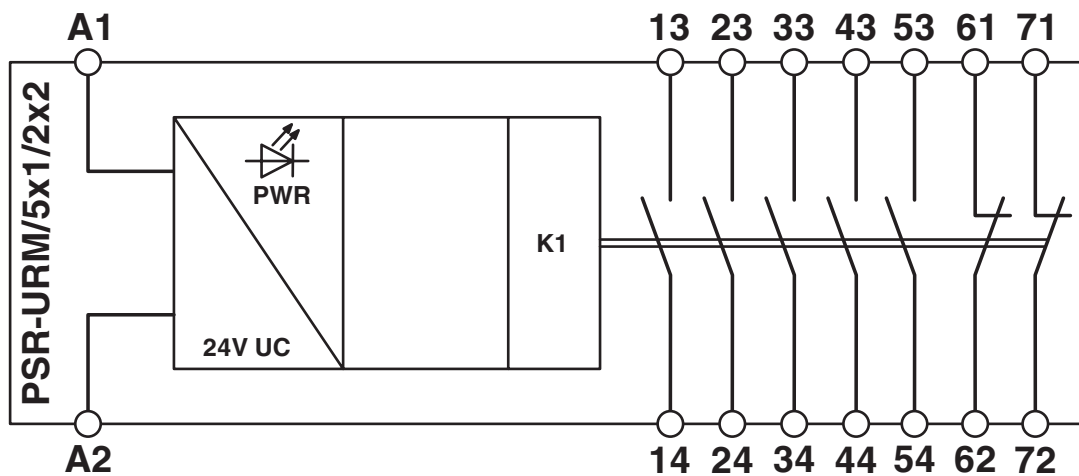
Drawings

Application drawing



Reliable signal exchange between two systems with confirmation function.

Block diagram



Block diagram

2963747

<https://www.phoenixcontact.com/us/products/2963747>

Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2963747>



Functional Safety

Approval ID: 3535 2399



Functional Safety

Approval ID: 4478015124312



cULus Listed

Approval ID: E140324

PSR-SCP- 24UC/URM/5X1/2X2 - Coupling relay



2963747

<https://www.phoenixcontact.com/us/products/2963747>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

2963747

<https://www.phoenixcontact.com/us/products/2963747>

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 | c328abaf-6509-4510-9721-5efe6843df5a |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 2.829 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