

PSR-MC82-5NO-1NC-1DO-24DC-SC - Extension module



2702382

<https://www.phoenixcontact.com/us/products/2702382>

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Contact extension up to SIL 3, Cat. 4, PL e in conjunction with suitable evaluation device, 5 enabling current paths, $U_S = 24 \text{ V DC}$, plug-in screw terminal block

Your advantages

- Up to Cat. 4/PL e in accordance with ISO 13849-1, SIL 3 in accordance with EN IEC 62061 in conjunction with suitable evaluation device
- Low housing width of just 17.5 mm
- 1- and 2-channel control
- 5 enabling current paths, 1 confirmation current path, 1 digital signal output
- Automatic activation

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2702382 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN01 |
| Product key | DNA181 |
| GTIN | 4055626145471 |
| Weight per piece (including packing) | 214.09 g |
| Weight per piece (excluding packing) | 185.62 g |
| Customs tariff number | 85371098 |
| Country of origin | DE |

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Technical data

Notes

Note on application

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

Product properties

| | |
|----------------|--|
| Product type | Safety relays |
| Product family | PSRmini |
| Application | Extension module |
| Control | 1 and 2 channel |
| 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

| | |
|-------------------------------|---|
| Typical response time | < 50 ms (Monitored/manual and auto-start) |
| Typ. starting time with U_S | < 50 ms (when controlled via A1/A2) |
| Typical release time | < 25 ms (when controlled via A1/A2) |
| Recovery time | < 100 ms |

Electrical properties

| | |
|---|--|
| Maximum power dissipation for nominal condition | 15.2 W (at $U_S = 30$ V, $I_L^2 = 64$ A ²) |
| Nominal operating mode | 100% operating factor |
| Rated insulation voltage | 250 V AC |
| Rated surge voltage/insulation | |

Supply

| | |
|--|---|
| Designation | A1/A2 |
| Rated control circuit supply voltage U_S | 19.2 V DC ... 30 V DC |
| Rated control circuit supply voltage U_S | 24 V DC -20 % / +25 % |
| Rated control supply current I_S | typ. 80 mA |
| Power consumption at U_S | typ. 1.92 W |
| Inrush current | typ. 125 mA ($\Delta t = 7$ ms at U_S) |
| Filter time | 4 ms (at A1 in the event of voltage dips at U_S) |
| | max. 1 ms (at A1/A2, test pulse width, blanking pulses/dark test) |
| | 5 ms (at A1/A2, test pulse rate, blanking pulses/dark test) |
| | Where test pulse width < 1 ms: test pulse rate = 5 x test pulse width |
| | max. 1 ms (at A1/A2, test pulse width, switch-on pulses/light test) |
| | 10 ms (at A1/A2; test pulse rate; switch-on pulses/light test) |
| Protective circuit | Surge protection; Suppressor diode |

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| | |
|--|--|
| | Reverse polarity protection; Universal diode |
|--|--|

Output data

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

| | |
|-----------------------------|---|
| Output description | safety-related N/O contacts |
| Number of outputs | 5 (undelayed) |
| Contact switching type | 5 enabling current paths |
| Contact material | AgSnO ₂ |
| Switching voltage | min. 5 V AC/DC max. 24 V DC (Enabling current path 23/24) max. 250 V AC/DC (all other enabling current paths, observe load curve) |
| Switching power | min. 50 mW (5 V / 10 mA) |
| Inrush current | min. 10 mA max. 20 A (≤ 100 ms) |
| Switching capacity | 3 A (24 V (DC13)) 3 A (250 V (AC15)) |
| Limiting continuous current | 6 A (observe derating) |
| Sq. Total current | 64 A ² (observe derating) |
| Switching frequency | max. 0.5 Hz |
| Mechanical service life | 10x 10 ⁶ cycles |
| Output fuse | 10 A gL/gG 6 A gL/gG (for low-demand applications) |

Relay: Confirmation current path (11/12)

| | |
|-----------------------------|--------------------------------|
| Output description | Safety-related N/C contacts |
| Number of outputs | 1 (undelayed) |
| Contact switching type | 1 confirmation current path |
| Contact material | AgSnO |
| Switching voltage | min. 5 V AC/DC max. 24 V DC |
| Switching power | min. 50 mW |
| Inrush current | min. 10 mA max. 100 mA |
| Limiting continuous current | 100 mA |
| Switching frequency | max. 0.5 Hz |
| Mechanical service life | 10x 10 ⁶ cycles |

Signal: M1

| | |
|--------------------------|---------------------------------------|
| Output description | non-safety-related |
| Number of outputs | 1 (digital, PNP) |
| Voltage | typ. 23 V DC (U _S - 1 V) |
| Current | max. 100 mA |
| Maximum inrush current | 500 mA (Δt = 1 ms at U _S) |
| Short-circuit protection | Yes |

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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

| | |
|----------------|-----------------|
| Status display | 2 x LED (green) |
|----------------|-----------------|

Dimensions

| | |
|--------|----------|
| Width | 17.5 mm |
| Height | 112.2 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) |
|------------------------------|--|

Environmental and real-life conditions

Ambient conditions

| | |
|---|-------------------------------------|
| Degree of protection | IP20 |
| Min. degree of protection of inst. location | IP54 |
| Ambient temperature (operation) | -20 °C ... 60 °C (observe derating) |

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| | |
|--|---|
| Ambient temperature (storage/transport) | -40 °C ... 80 °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 6 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

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

Mounting

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

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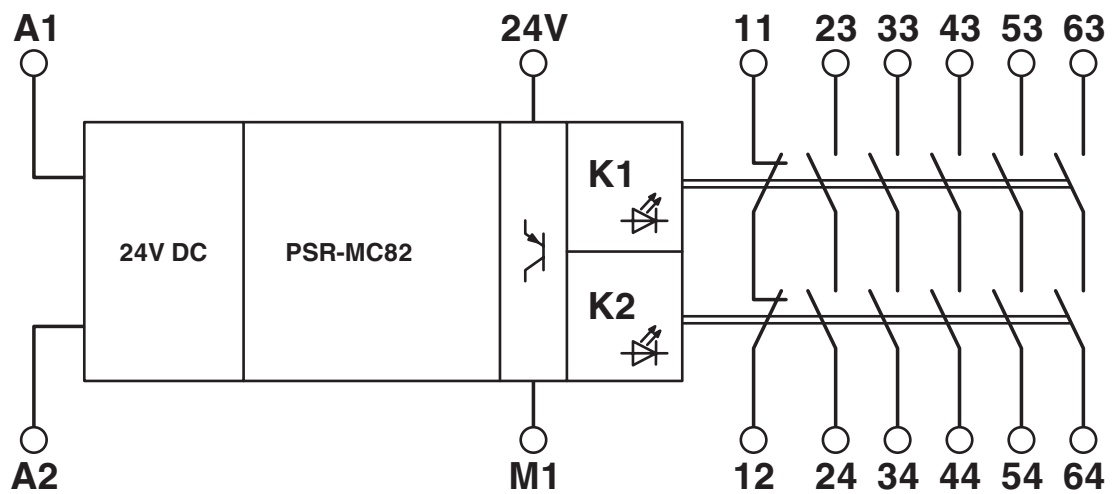
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Drawings

Circuit diagram



Block diagram



Block diagram

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2702382>



Functional Safety

Approval ID: 44 205 15124303



Functional Safety

Approval ID: 4478015124303



cULus Listed

Approval ID: E140324

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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 |
|-------------|----------|

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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 | 5cc21dee-aeaf-4113-b01b-485afa7da360 |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 4.284 kg CO2e |
|---------|---------------|

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