

PLC-2RSC-24DC/ 1 - Relay module



2987309

<https://www.phoenixcontact.com/us/products/2987309>

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PLC-INTERFACE with two independent relays, consisting of PLC-BSC.../21 basic terminal block with screw connection and two integrated relays, power contact, for mounting on DIN rail NS 35/7,5, 2 x 1 N/O contact, input voltage 24 V DC

Your advantages

- Two switching channels in one 6.2 mm housing
- 100% higher channel density than conventional 6.2 mm relays
- Integrated input circuit/protective circuit
- Safe isolation according to DIN EN 50178 between coil and contacts and between contacts
- Screw- and Push-in connection

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2987309 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | C461 |
| Product key | DK6228 |
| GTIN | 4046356451215 |
| Weight per piece (including packing) | 37.4 g |
| Weight per piece (excluding packing) | 34 g |
| Customs tariff number | 85364190 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|-------------------------|---------------------------|
| Product type | Relay Module |
| Product family | PLC-INTERFACE |
| Application | two integrated relays |
| Operating mode | 100% operating factor |
| Mechanical service life | 2x 10 ⁷ cycles |

Insulation characteristics: Air clearances and creepage distances between the power circuits

| | |
|----------------------|------------------|
| Insulation | Basic insulation |
| Overvoltage category | III |
| Pollution degree | 2 |

Data management status

| | |
|------------------------------|------------|
| Date of last data management | 01.04.2026 |
|------------------------------|------------|

Electrical properties

| | |
|---|--|
| Maximum power dissipation for nominal condition | 0.17 W |
| Test voltage (Winding/contact) | 3 kV AC (50 Hz, 1 min., winding/contact) |
| Test voltage (Contact/contact) | 3 kV AC (50 Hz, 1 min., contact/contact) |

Air clearances and creepage distances between the power circuits

| | |
|--------------------------|----------|
| Rated insulation voltage | 250 V AC |
| Rated surge voltage | 4 kV |

Input data

Coil side

| | |
|--------------------------------|--|
| Nominal input voltage U_N | 24 V DC |
| Input voltage range | 18 V DC ... 33.6 V DC (20 °C) |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at U_N | 7 mA |
| Typical response time | 4 ms |
| Typical release time | 6 ms |
| Protective circuit | Reverse polarity protection; Polarity protection diode Freewheeling diode; Freewheeling diode |
| Operating voltage display | Yellow LED |

Output data

Switching

| | |
|-----------------------------------|-----------------------|
| Contact switching type | 2 N/O contacts |
| Type of switch contact | Single contact |
| Note regarding the switch contact | two integrated relays |

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| | |
|---------------------------------------|-----------------------|
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC |
| | 30 V DC |
| Minimum switching voltage | 24 V AC/DC |
| Limiting continuous current | 3.5 A |
| Maximum inrush current | 5 A |
| Min. switching current | 5 mA |
| Interrupting rating (ohmic load) max. | 84 W (at 24 V DC) |
| | 24 W (at 48 V DC) |
| | 24 W (at 60 V DC) |
| | 31 W (at 110 V DC) |
| | 46 W (at 220 V DC) |
| | 875 VA (for 250 V AC) |

Connection data

| | |
|----------------------------------|--|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross-section rigid | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.14 mm ² ... 2.5 mm ² |
| | 0.2 mm ² ... 2.5 mm ² (Single ferrule) |
| | 2x 0.5 mm ² ... 1.5 mm ² (TWIN ferrule) |
| Conductor cross-section AWG | 26 ... 14 |
| Tightening torque | 0.45 Nm ... 0.55 Nm (Usually these terminal blocks must be supported during conductor connection (held by one hand, supported on the housing)) |

Dimensions

Item dimensions

| | |
|--------|--------|
| Width | 6.2 mm |
| Height | 80 mm |
| Depth | 94 mm |

Material specifications

| | |
|--|-----------------|
| Color | gray (RAL 7042) |
| Flammability rating according to UL 94 (Housing) | V0 (Housing) |

Environmental and real-life conditions

Ambient conditions

| | |
|---|-------------------|
| Degree of protection (Relay base) | IP20 (Relay base) |
| Ambient temperature (operation) | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -20 °C ... 60 °C |

Approvals

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CE

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

Corrosive gas test

| | |
|----------------|----------------------------|
| Identification | ISA-S71.04. G3 Harsh Group |
| | EN 60068-2-60 |

EMC data

| | |
|-------------------------------|--|
| Electromagnetic compatibility | Conformance with EMC directive |
| Low Voltage Directive | Conformance with Low Voltage Directive |

Standards and regulations

Air clearances and creepage distances between the power circuits

| | |
|-----------------------|-----------|
| Standards/regulations | IEC 60664 |
| | EN 50178 |

Mounting

| | |
|-------------------|---------------------------|
| Mounting type | DIN rail mounting |
| Assembly note | in rows with zero spacing |
| Mounting position | any |

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Drawings

Application drawing



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Diagram



① DC, ohmic load

Interrupting rating

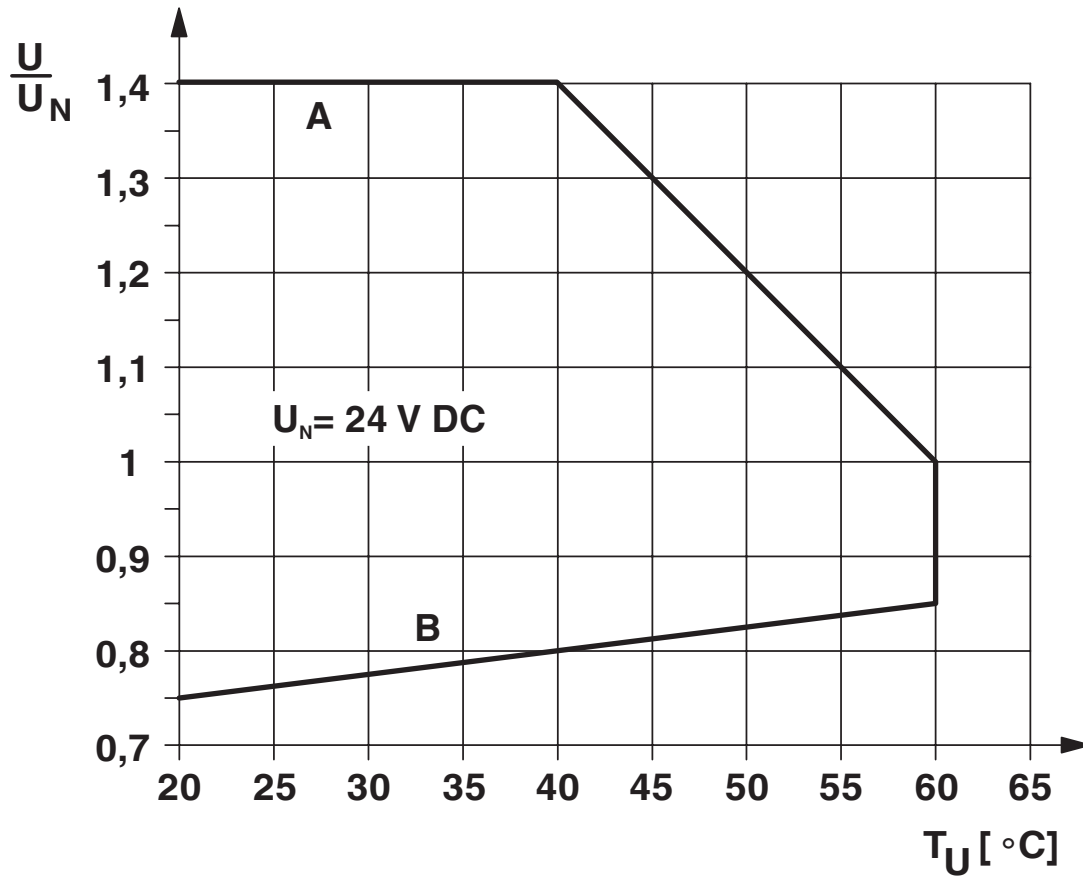
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Diagram



Operating voltage range

Diagram



Permissible humidity for operation and storage.

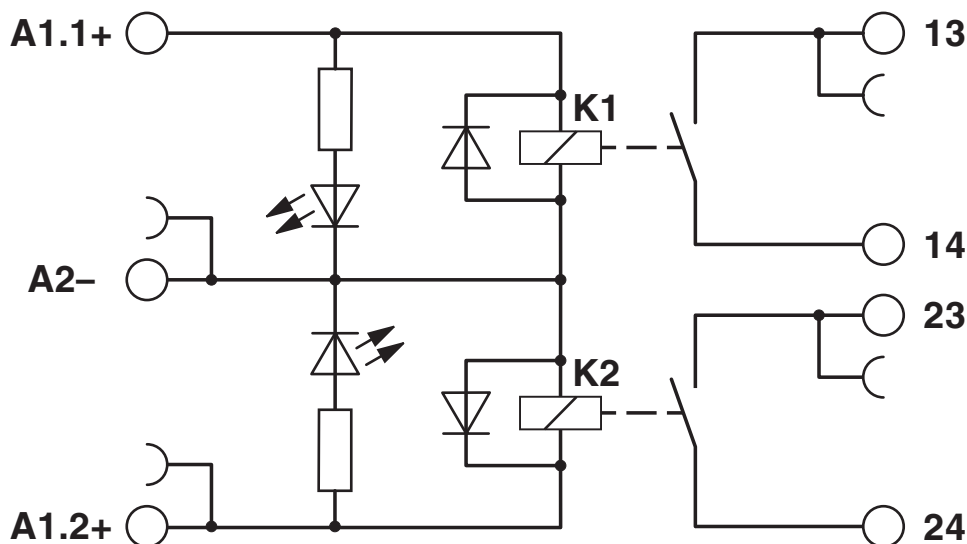
The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures $\leq 0^\circ\text{C}$ must be prevented

Area B: Condensation at ambient temperatures $> 0^\circ\text{C}$ must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature $\leq 25^\circ\text{C}$.

Circuit diagram



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Approval ID: E140324



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27371601 |
| ECLASS-15.0 | 27371601 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001437 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39122300 |
|-------------|----------|

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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 | 05dd2ace-5119-49fe-9dcd-afb89e7fecb7 |

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