

# PLC-RPT- 24DC/ 1AU/SEN - Relay Module



2900313

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PLC-INTERFACE for input functions, consisting of PLC-BPT.../SEN basic terminal block with push-in connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 24 V DC

## Your advantages

- No need for additional modular terminal blocks
- Time savings of up to 60 %
- Efficient connection to system cabling using V8 adapter
- Relay modules with safe isolation according to DIN EN 50178 between coil and contact
- Space savings of up to 80 %
- Functional plug-in bridges
- Sensor connected directly to relay module

## Commercial Data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2900313             |
| Packing unit                         | 10 pc               |
| Minimum order quantity               | 1 pc                |
| Sales Key                            | CK6                 |
| Product Key                          | CK623B              |
| Catalog Page                         | Page 380 (C-5-2019) |
| GTIN                                 | 4046356510011       |
| Weight per Piece (including packing) | 35.539 g            |
| Weight per Piece (excluding packing) | 32.614 g            |
| Customs tariff number                | 85364190            |
| Country of origin                    | DE                  |

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## Set consists of

### PLC-BPT- 24DC/ 1/SEN - Relay base

2900262

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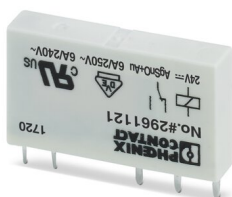
6.2 mm PLC basic terminal block for input functions with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 24 V DC

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### REL-MR- 24DC/21AU - Single relay

2961121

<https://www.phoenixcontact.com/in/products/2961121>



Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 24 V DC

## Technical Data

### Product properties

|                         |                           |
|-------------------------|---------------------------|
| Product type            | Relay Module              |
| Product family          | PLC-INTERFACE             |
| Application             | Input function            |
| Operating mode          | 100% operating factor     |
| Mechanical service life | 2x 10 <sup>7</sup> cycles |

### Insulation characteristics: Standards/regulations

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Pollution degree     | 3   |

### Electrical properties

|   |  |
|---|--|
| Maximum power dissipation for nominal condition | 0.22 W                                   |
| Test voltage (Winding/contact)                  | 4 kV AC (50 Hz, 1 min., winding/contact) |

### Input data

#### Coil side

|   |  |
|---|--|
| Nominal input voltage U <sub>N</sub>    | 24 V DC  |
| Input voltage range                     | 18.5 V DC ... 33.6 V DC (20 °C)  |
| Drive and function                      | monostable   |
| Drive (polarity)                        | polarized  |
| Typical input current at U <sub>N</sub> | 9 mA   |
| Typical response time                   | 5 ms   |
| Typical release time                    | 8 ms   |
| Protective circuit                      | Reverse polarity protection; Polarity protection diode<br>Surge protection; Freewheeling diode |
| Operating voltage display               | Yellow LED   |

### Output data

#### Switching

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Contact type                          | 1 N/O contact                         |
| Type of switch contact                | Single contact                        |
| Contact material                      | AgSnO <sub>2</sub> , hard gold-plated |
| Maximum switching voltage             | 30 V AC<br>36 V DC                    |
| Minimum switching voltage             | 100 mV (at 10 mA)                     |
| Limiting continuous current           | 50 mA                                 |
| Maximum inrush current                | 50 mA                                 |
| Min. switching current                | 1 mA (24 V)                           |
| Interrupting rating (ohmic load) max. | 1.2 W (at 24 V DC)                    |

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Switching: when the gold layer is destroyed

|                                       |  |
|---------------------------------------|--|
| Note                                  | the following values are applicable if a gold layer is destroyed   |
| Maximum switching voltage             | 250 V AC/DC  |
| Minimum switching voltage             | 5 V (at 100 mA)  |
| Limiting continuous current           | 6 A  |
| Min. switching current                | 10 mA (at 12 V)  |
| Interrupting rating (ohmic load) max. | 140 W (at 24 V DC)<br>20 W (at 48 V DC)<br>18 W (at 60 V DC)<br>23 W (at 110 V DC)<br>40 W (at 220 V DC)<br>1500 VA (for 250 V AC)             |
| Switching capacity                    | 2 A (at 24 V, DC13)<br>0.2 A (at 110 V, DC13)<br>0.1 A (at 220 V, DC13)<br>3 A (at 24 V, AC15)<br>3 A (at 120 V, AC15)<br>3 A (at 230 V, AC15) |

## Connection data

|                                  |   |
|----------------------------------|---|
| Connection method                | Push-in connection  |
| Stripping length                 | 10 mm   |
| Conductor cross section rigid    | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup><br>0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Single ferrule)<br>2x 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup> (TWIN ferrule) |
| Conductor cross section AWG      | 26 ... 14   |

## Dimensions

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

## Material specifications

|  |              |
|--|--------------|
| Flammability rating according to UL 94 | V0 (Housing) |
|--|--------------|

## Environmental and real-life conditions

### Ambient conditions

|   |                                    |
|---|------------------------------------|
| Degree of protection (Relay)            | RT III (Relay)                     |
| Degree of protection (Relay base)       | IP20 (Relay base)                  |
| Ambient temperature (operation)         | -40 °C ... 70 °C (see to derating) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C                   |

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## Approvals

### Corrosive gas test

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

## Standards and regulations

### Standards/regulations

|                       |  |
|-----------------------|--|
| Standards/regulations | IEC 60664                                  |
|                       | IEC 60664A                                 |
|                       | DIN VDE 0110                               |
|                       | DIN EN 50178/VDE 0160 (in relevant parts)  |
|                       | DIN EN 50178/VDE 0160                      |
|                       | IEC 60255/DIN VDE 0435 (in relevant parts) |

## Mounting

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

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