

PLC-RSP- 12DC/21 - Relay module



2967439

<https://www.phoenixcontact.com/us/products/2967439>

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.



PLC-INTERFACE, consisting of PLC-BSP...../21 basic terminal block with spring-cage connection and plug-in miniature relay with power contact, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 12 V DC

Your advantages

- Slim design
- Efficient connection to system cabling using V8 adapter
- RT III sealed relay
- Safe isolation between coil and contact side
- Integrated input circuit and interference suppression circuit
- Functional plug-in bridges

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2967439 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C461 |
| Product key | DK622A |
| GTIN | 4017918165383 |
| Weight per piece (including packing) | 31.94 g |
| Weight per piece (excluding packing) | 30.1 g |
| Customs tariff number | 85364190 |
| Country of origin | DE |

PLC-RSP- 12DC/21 - Relay module



2967439

<https://www.phoenixcontact.com/us/products/2967439>

Technical data

Product properties

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

Insulation characteristics: Standards/regulations

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

Data management status

| | |
|------------------------------|------------|
| Date of last data management | 12.09.2025 |
|------------------------------|------------|

Electrical properties

| | |
|-------------------------------------------------|------------------------------------------|
| Maximum power dissipation for nominal condition | 0.18 W |
| Test voltage (Winding/contact) | 4 kV AC (50 Hz, 1 min., winding/contact) |

Input data

Coil side

| | |
|-----------------------------------------|--------------------------------------------------------------------------------------------------|
| Nominal input voltage U _N | 12 V DC |
| Input voltage range | 9.7 V DC ... 16.8 V DC |
| Drive and function | monostable |
| Typical input current at U _N | 15.3 mA |
| Typical response time | 5 ms |
| Typical release time | 8 ms |
| Protective circuit | Reverse polarity protection; Polarity protection diode Freewheeling diode; Freewheeling diode |
| Operating voltage display | Yellow LED |

Output data

Switching

| | |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contact switching type | 1 changeover contact |
| Type of switch contact | Single contact |
| Contact material | AgSnO |
| Maximum switching voltage | 250 V AC/DC (The separating plate PLC-ATP should be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules. Potential bridging is then carried out with FBST 8-PLC... or ...FBST 500...) |
| Minimum switching voltage | 5 V (at 100 mA) |
| Limiting continuous current | 6 A |
| Maximum inrush current | on request |

PLC-RSP- 12DC/21 - Relay module



2967439

<https://www.phoenixcontact.com/us/products/2967439>

| | |
|---------------------------------------|------------------------|
| Min. switching current | 10 mA (at 12 V) |
| Interrupting rating (ohmic load) max. | 140 W (at 24 V DC) |
| | 20 W (at 48 V DC) |
| | 18 W (at 60 V DC) |
| | 23 W (at 110 V DC) |
| | 40 W (at 220 V DC) |
| | 1500 VA (for 250 V AC) |
| Switching capacity | 2 A (at 24 V, DC13) |
| | 0.2 A (at 110 V, DC13) |
| | 0.1 A (at 220 V, DC13) |
| | 3 A (at 24 V, AC15) |
| | 3 A (at 120 V, AC15) |
| | 3 A (at 230 V, AC15) |

Connection data

Coil side

| | |
|----------------------------------|----------------------------------------------|
| Connection method | Spring-cage connection |
| Stripping length | 8 mm |
| Conductor cross-section rigid | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 26 ... 14 |

Contact side

| | |
|----------------------------------|----------------------------------------------|
| Connection method | Spring-cage connection |
| Stripping length | 8 mm |
| Conductor cross-section rigid | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 26 ... 14 |

Dimensions

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

Material specifications

| | |
|--------------------------------------------------|------------------|
| Color | green (RAL 6021) |
| 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) | -40 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

PLC-RSP- 12DC/21 - Relay module



2967439

<https://www.phoenixcontact.com/us/products/2967439>

Standards and regulations

Standards/regulations

| | |
|-----------------------|---------------|
| Standards/regulations | IEC 60664 |
| | IEC 60947-5-1 |

Mounting

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

Drawings

Diagram



Curve A

Maximum permissible continuous voltage U_{max} with limiting continuous current on the contact side (see relevant technical data)

Curve B

Minimum permissible operate voltage U_{op} after pre-excitation (see relevant technical data)

Diagram



Interrupting rating

Circuit diagram



PLC-RSP- 12DC/21 - Relay module



2967439

<https://www.phoenixcontact.com/us/products/2967439>

Environmental product compliance

EU RoHS

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

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.) | Hexahydromethylphthalic anhydride(CAS: n/a) |
| | Lead(CAS: 7439-92-1) |

Phoenix Contact 2025 © - 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