

# PLC-RSC- 24UC/21/MS - Relay module



2909650

<https://www.phoenixcontact.com/us/products/2909650>

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-BSC.../21 basic terminal block with screw connection and plug-in miniature relay with power contact and manual operation, 1 changeover contact, 24 V AC/DC input voltage

## Your advantages

- Slim design

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2909650       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 10 pc         |
| Sales key                            | C461          |
| Product key                          | DK622A        |
| GTIN                                 | 4055626377858 |
| Weight per piece (including packing) | 39.37 g       |
| Weight per piece (excluding packing) | 31.06 g       |
| Customs tariff number                | 85364190      |
| Country of origin                    | DE            |

# PLC-RSC- 24UC/21/MS - Relay module



2909650

<https://www.phoenixcontact.com/us/products/2909650>

## Technical data

### Notes

|                    |   |
|--------------------|---|
| Notes on operation | Separating plate PLC-ATP must 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.... |
|--------------------|---|

### Product properties

|                         |                           |
|-------------------------|---------------------------|
| Product type            | Relay Module              |
| Product family          | PLC-INTERFACE             |
| Application             | Palm switch               |
| Operating mode          | 100% operating factor     |
| Mechanical service life | 1x 10 <sup>7</sup> cycles |

### Data management status

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

### Electrical properties

|   |  |
|---|--|
| Maximum power dissipation for nominal condition | 0.26 W                                   |
| Test voltage (Winding/contact)                  | 4 kV AC (50 Hz, 1 min., winding/contact) |

### Insulation characteristics: Coil/contact

|                                 |       |
|---------------------------------|-------|
| Rated insulation voltage        | 250 V |
| Rated impulse withstand voltage | 6 kV  |
| Overvoltage category            | III   |
| Degree of pollution             | 3     |

### Input data

#### Coil side

|  |   |
|--|---|
| Nominal input voltage $U_N$                          | 24 V AC/DC  |
| Input voltage range                                  | 19.4 V AC/DC ... 33.6 V AC/DC (20 °C)                     |
| Nominal voltage (plugged-in electromechanical relay) | 24 V DC   |
| Drive and function                                   | monostable  |
| Drive (polarity)                                     | polarized   |
| Typical input current at $U_N$                       | 11 mA (at $U_N = 24$ V AC)<br>8.5 mA (at $U_N = 24$ V DC) |
| Typical response time                                | 6 ms  |
| Typical release time                                 | 15 ms   |
| Protective circuit                                   | Bridge rectifier; Bridge rectifier                        |
| Operating voltage display                            | Yellow LED  |

### Output data

#### Switching

# PLC-RSC- 24UC/21/MS - Relay module



2909650

<https://www.phoenixcontact.com/us/products/2909650>

|                                       |   |
|---------------------------------------|---|
| 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                | 10 A (4 s)  |
| Min. switching current                | 10 mA (12 V)  |
| Short-circuit current                 | 200 A (conditional short-circuit current)   |
| 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)  |
| Output fuse                           | 4 A gL/gG NEOZED  |
| 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                | Screw connection  |
| Stripping length                 | 8 mm  |
| Screw thread                     | M3  |
| 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> ... 1.5 mm <sup>2</sup> (TWIN ferrule) |
| Conductor cross-section AWG      | 26 ... 14   |
| Tightening torque                | 0.6 Nm ... 0.8 Nm   |

## Dimensions

### Item dimensions

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

## Material specifications

|       |                 |
|-------|-----------------|
| Color | gray (RAL 7042) |
|-------|-----------------|

# PLC-RSC- 24UC/21/MS - Relay module



2909650

<https://www.phoenixcontact.com/us/products/2909650>

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

## Environmental and real-life conditions

### Ambient conditions

|   |                   |
|---|-------------------|
| Degree of protection (Relay)            | RT II (Relay)     |
| Degree of protection (Relay base)       | IP20 (Relay base) |
| Ambient temperature (operation)         | -40 °C ... 60 °C  |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C  |

## Approvals

### CE

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

### UKCA

|             |                |
|-------------|----------------|
| Certificate | UKCA-compliant |
|-------------|----------------|

### Shipbuilding approval

|             |            |
|-------------|------------|
| Certificate | TAE0000196 |
|-------------|------------|

### Corrosive gas test

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

### Shipbuilding data

|             |   |
|-------------|---|
| Temperature | D   |
| Humidity    | A   |
| Vibration   | B/C   |
| EMC         | B   |
| Enclosure   | Required protection according to the Rules shall be provided upon installation on board |

## EMC data

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

## 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)



Interrupting rating

Diagram



① 250 V AC, ohmic load

Electrical service life

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



# PLC-RSC- 24UC/21/MS - Relay module



2909650

<https://www.phoenixcontact.com/us/products/2909650>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2909650>



**cULus Listed**

Approval ID: E140324



**cULus Listed**

Approval ID: E140324



**cULus Listed**

Approval ID: E140324

**DNV**

Approval ID: TAE0000196

# PLC-RSC- 24UC/21/MS - Relay module



2909650

<https://www.phoenixcontact.com/us/products/2909650>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

# PLC-RSC- 24UC/21/MS - Relay module



2909650

<https://www.phoenixcontact.com/us/products/2909650>

## 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.) | Hexahydromethylphthalic anhydride(CAS: n/a) |
|                                     | Lead(CAS: 7439-92-1)                        |
| SCIP                                | 93756dca-2061-46a8-857e-3c400466bc55        |

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](mailto:info@phoenixcon.com)