

## Relay Module - PLC-RSP- 24UC/21 - 2966485

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PLC relay, consisting of base terminal block PLC-BSP.../21 with spring-cage connection and pluggable miniature relay with power contact, for assembly on DIN rail NS 35/7.5, 1 PDT, input voltage 24 V AC/DC

The illustration shows the version  
PLC-RSC-24DC/21

### Product Features

- Slim design
- Efficient connection to system cabling using V8 adapter
- RT III sealed relay
- Safe isolation according to DIN EN 50178 between coil and contact
- Functional plug-in bridges
- Integrated input circuit and interference suppression circuit



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 017918 165338 |
| Weight per Piece (excluding packing) | 32.43 g                                                                                                 |
| Custom tariff number                 | 85364190                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### Technical data

#### Note

|                         |                                                                           |
|-------------------------|---------------------------------------------------------------------------|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---------------------------------------------------------------------------|

### Dimensions

# Relay Module - PLC-RSP- 24UC/21 - 2966485

## Technical data

### Dimensions

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

### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -40 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

### Coil side

|                                         |                                   |
|-----------------------------------------|-----------------------------------|
| Nominal input voltage $U_N$             | 24 V AC/DC                        |
| Typical input current at $U_N$          | 11 mA (at $U_N = 24$ V AC)        |
|                                         | 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                        |
| Power dissipation for nominal condition | 0.26 W                            |

### Contact side

|                                                        |                                                                                                                                                                                                                                               |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contact type                                           | 1 PDT                                                                                                                                                                                                                                         |
| 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)                                                                                                                                                                                                                               |
| Min. switching current                                 | 10 mA (at 12 V)                                                                                                                                                                                                                               |
| Maximum inrush current                                 | on request                                                                                                                                                                                                                                    |
| Limiting continuous current                            | 6 A                                                                                                                                                                                                                                           |
| 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 in acc. with DIN VDE 0660/IEC 60947 | 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)                                                                                                                                                                                                                          |

# Relay Module - PLC-RSP- 24UC/21 - 2966485

## Technical data

### Contact side

|  |                      |
|--|----------------------|
|  | 3 A (at 230 V, AC15) |
|--|----------------------|

### Connection data input side

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Connection name                  | Coil side                                    |
| Connection method                | Spring-cage connection                       |
| Stripping length                 | 8 mm                                         |
| Conductor cross section solid    | 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> |
| Conductor cross section AWG      | 26 ... 14                                    |

### Connection data output side

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Connection name                  | Contact side                                 |
| Connection method                | Spring-cage connection                       |
| Stripping length                 | 8 mm                                         |
| Conductor cross section solid    | 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> |
| Conductor cross section AWG      | 26 ... 14                                    |

## General

|                                          |                            |
|------------------------------------------|----------------------------|
| Test voltage relay winding/relay contact | 4 kV AC (50 Hz, 1 min.)    |
| Operating mode                           | 100% operating factor      |
| Mechanical service life                  | 2 x 10 <sup>7</sup> cycles |
| Flammability rating according to UL 94   | V0                         |
| Designation                              | Standards/regulations      |
| Standards/regulations                    | IEC 60664                  |
|                                          | EN 50178                   |
|                                          | IEC 62103                  |
| Degree of pollution                      | 3                          |
| Overvoltage category                     | III                        |
| Mounting position                        | any                        |
| Assembly instructions                    | In rows with zero spacing  |

## Standards and Regulations

|                                  |                       |
|----------------------------------|-----------------------|
| Connection in acc. with standard | CUL                   |
| Designation                      | Standards/regulations |
| Standards/regulations            | IEC 60664             |
|                                  | EN 50178              |
|                                  | IEC 62103             |
| Degree of pollution              | 3                     |

## Relay Module - PLC-RSP- 24UC/21 - 2966485

### Technical data

#### Standards and Regulations

|                                        |     |
|----------------------------------------|-----|
| Overvoltage category                   | III |
| Flammability rating according to UL 94 | V0  |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27371102 |
| eCl@ss 4.1 | 27371102 |
| eCl@ss 5.0 | 27371001 |
| eCl@ss 5.1 | 27371001 |
| eCl@ss 6.0 | 27371001 |
| eCl@ss 7.0 | 27371001 |
| eCl@ss 8.0 | 27371601 |
| eCl@ss 9.0 | 27371601 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000196 |
| ETIM 3.0 | EC000196 |
| ETIM 4.0 | EC000196 |
| ETIM 5.0 | EC001437 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211916 |
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11     | 39121515 |
| UNSPSC 12.01  | 39121515 |
| UNSPSC 13.2   | 39121515 |

### Approvals

#### Approvals

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##### Approvals

UL Recognized / UL Listed / cUL Recognized / cUL Listed / GL / EAC / RC FRT / EAC / cULus Recognized / cULus Listed

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##### Ex Approvals

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# Relay Module - PLC-RSP- 24UC/21 - 2966485

## Approvals

Approvals submitted

### Approval details

UL Recognized 

UL Listed 

cUL Recognized 

cUL Listed 

GL

EAC

RC FRT

EAC

cULus Recognized 

cULus Listed 

## Accessories

Accessories

## Relay Module - PLC-RSP- 24UC/21 - 2966485

### Accessories

#### Bridge

Continuous plug-in bridge - FBST 500-PLC RD - 2966786



Continuous plug-in bridge, Length: 500 mm, Color: red

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Continuous plug-in bridge - FBST 500-PLC BU - 2966692



Continuous plug-in bridge, Length: 500 mm, Color: blue

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Continuous plug-in bridge - FBST 500-PLC GY - 2966838



Continuous plug-in bridge, Length: 500 mm, Color: gray

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Single plug-in bridge - FBST 6-PLC RD - 2966236



Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: red

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Single plug-in bridge - FBST 6-PLC BU - 2966812



Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: blue

---

## Relay Module - PLC-RSP- 24UC/21 - 2966485

### Accessories

Single plug-in bridge - FBST 6-PLC GY - 2966825



Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: gray

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Single plug-in bridge - FBST 8-PLC GY - 2967688



Single plug-in bridge, Length: 8 mm, Number of positions: 2, Color: gray

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### DIN rail

DIN rail, unperforated - NS 35/ 7,5 V2A UNPERF 2000MM - 0801377



DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

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DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

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DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM - 0801762



DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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## Relay Module - PLC-RSP- 24UC/21 - 2966485

### Accessories

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m

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DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m

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DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM - 1201798



DIN rail, material: Steel, unperforated, 2.3 mm thick, height 15 mm, width 35 mm, length: 2 m

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DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm

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DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm

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## Relay Module - PLC-RSP- 24UC/21 - 2966485

### Accessories

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681



DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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### Labeled terminal marker

Zack marker strip - ZB 6,LGS:FORTL.ZAHLEN - 1051016



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

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### Partition plate

Separating plate - PLC-ATP BK - 2966841



Separating plate, 2 mm thick, required at the start and end of a PLC terminal strip. Furthermore, it is used for: visual separation of groups, safe isolation of different voltages of neighboring PLC relays in acc. with DIN VDE 0106-101, isolation

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### Power module

Power terminal block - PLC-ESK GY - 2966508



Power terminal block, for the input of up to four potentials, for mounting on NS 35/7.5

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### Screwdriver tools

## Relay Module - PLC-RSP- 24UC/21 - 2966485

### Accessories

Screwdriver - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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### Terminal marking

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

Zack marker strip - ZB 6/WH-100:UNBEDRUCKT - 5060935



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

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### Spare parts

Relay socket - PLC-BSP- 24UC/21 - 2967222



6.2 mm PLC basic terminal block with spring-cage connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 PDT, input voltage 24 V AC/DC

Single relay - REL-MR- 24DC/21 - 2961105



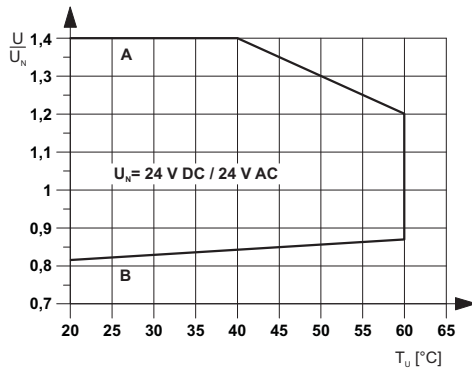
Plug-in miniature power relay, with power contact, 1 PDT, input voltage 24 V DC

# Relay Module - PLC-RSP- 24UC/21 - 2966485

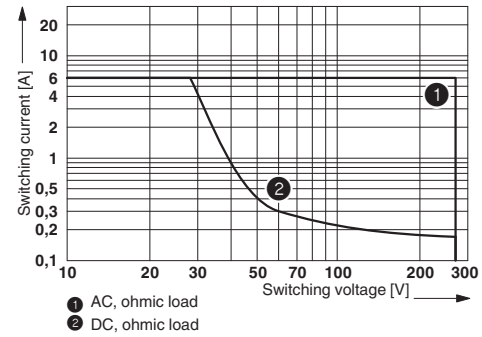
## Accessories

## Drawings

Diagram



Diagram



Interrupting rating

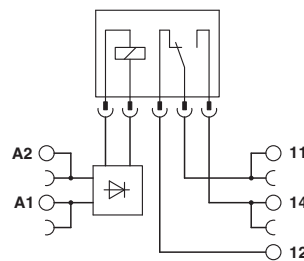
### Curve A

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)

Circuit diagram



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