

## Relay Module - PLC-RPT- 24UC/21AU/RW - 2900321

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



PLC-INTERFACE for railway applications, consisting of basic terminal block with push-in connection and plug-in miniature relay with multi-layer gold contact, range:  $0.7 \times U_N$  to  $1.25 \times U_N$ , temperature class TX:  $-40^\circ\text{C}$  to  $+70^\circ\text{C}$ , 1 PDT, input voltage 24 V DC

The illustration shows the version  
PLC-RSP-24UC/21/RW

### Product Features

- ✓ Optimum relay operation thanks to wide-range electronics
- ✓ Certified according to EN 50155
- ✓ Vibration and shock resistance according to EN 50155
- ✓ Safe isolation according to DIN EN 50178 between coil and contact
- ✓ Spring-cage and Push-in connection technology
- ✓ Temperature range from  $-40^\circ\text{C}$  to  $+70^\circ\text{C}$  ( $+85^\circ\text{C}$  briefly)
- ✓ Input voltage range of  $0.7$  to  $1.25 \times U_N$  ( $1.4 \times U_N$  briefly)



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 pc      |
| Weight per Piece (excluding packing) | 33.74 GRM |
| 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

|        |        |
|--------|--------|
| Width  | 6.2 mm |
| Height | 80 mm  |

# Relay Module - PLC-RPT- 24UC/21AU/RW - 2900321

## Technical data

### Dimensions

|       |       |
|-------|-------|
| Depth | 94 mm |
|-------|-------|

### Ambient conditions

|   |   |
|---|---|
| Ambient temperature (operation)         | -40 °C ... 70 °C (Temperature class TX) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C                        |

### Coil side

|   |                                   |
|---|-----------------------------------|
| Nominal input voltage $U_N$               | 24 V DC                           |
| Input voltage range in reference to $U_N$ | 0.7 ... 1.25                      |
| Typical input current at $U_N$            | 9 mA                              |
| Typical response time                     | 4 ms                              |
| Typical release time                      | 4 ms                              |
| Operating voltage display                 | Yellow LED                        |
| Protective circuit                        | Bridge rectifier Bridge rectifier |
|   | Free-wheeling diode Damping diode |
|   | Surge protection                  |
|   | RCZ filter                        |
|   | Wide-range electronics            |

### Contact side

|  |   |
|--|---|
| Contact type   | 1 PDT   |
| Contact material                                       | AgSnO, hard gold-plated   |
| Maximum switching voltage                              | 30 V AC   |
|  | 36 V DC   |
| Minimum switching voltage                              | 100 mV (at 10 mA)   |
| Maximum inrush current                                 | 50 mA   |
| Min. switching current                                 | 1 mA (at 24 V)  |
| Limiting continuous current                            | 50 mA   |
| Interrupting rating (ohmic load) max.                  | 1.2 W (at 24 V DC)  |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 1 A (24 V (DC13))   |
|  | 0.2 A (110 V (DC13))  |
|  | 0.1 A (220 V (DC13))  |
|  | 3 A (24 V (AC15))   |
|  | 3 A (120 V (AC15))  |
|  | 3 A (230 V (AC 15))   |
| Note   | the following values are applicable if a gold layer is destroyed  |
| Maximum switching voltage                              | 250 V AC/DC (Separating plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules.) |

# Relay Module - PLC-RPT- 24UC/21AU/RW - 2900321

## Technical data

### Contact side

|  |                        |
|--|------------------------|
| Minimum switching voltage                              | 12 V AC/DC             |
| Limiting continuous current                            | 6 A                    |
| Min. switching current                                 | 10 mA                  |
| 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)   |
|  | 3 A (at 230 V, AC15)   |

### General

|  |                                     |
|--|-------------------------------------|
| Test voltage relay winding/relay contact | 4 kV <sub>rms</sub> (50 Hz, 1 min.) |
| Operating mode                           | 100% operating factor               |
| Degree of protection                     | RT III (Relay)                      |
|  | IP20 (Relay socket)                 |
| Mechanical service life                  | Approx. $2 \times 10^7$ cycles      |
| Inflammability class according to UL 94  | V0                                  |
| Standards/regulations                    | EN 50155 (VDE 0115 part 200)        |
|  | EN 50178                            |
|  | IEC 62103                           |
|  | EN 61373                            |
|  | EN 50121                            |
| Rated surge voltage / insulation         | 6 kV                                |
| Rated insulation voltage                 | 250 V AC                            |
| Pollution degree                         | 2                                   |
| Surge voltage category                   | III                                 |
| Mounting position                        | any                                 |
| Assembly instructions                    | In rows with zero spacing           |

### Connection data

|                   |                    |
|-------------------|--------------------|
| Connection method | Push-in connection |
| Stripping length  | 8 mm               |

# Relay Module - PLC-RPT- 24UC/21AU/RW - 2900321

## Technical data

### Connection data

|  |                      |
|--|----------------------|
| Conductor cross section stranded min.  | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded max.  | 2.5 mm <sup>2</sup>  |
| Conductor cross section solid min.     | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.     | 2.5 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil max  | 14                   |
| Conductor cross section AWG/kcmil min. | 26                   |

## Classifications

### eCl@ss

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

### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC000196 |
| ETIM 5.0 | EC000196 |

### UNSPSC

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

## Approvals

### Approvals

---

#### Approvals

UL Listed / cUL Listed / UL Recognized / cUL Recognized / GL / cULus Recognized / cULus Listed

---

#### Ex Approvals

# Relay Module - PLC-RPT- 24UC/21AU/RW - 2900321

## Approvals

---


Approvals submitted


---

### Approval details



UL Listed 

cUL Listed 

UL Recognized 

cUL Recognized 

GL

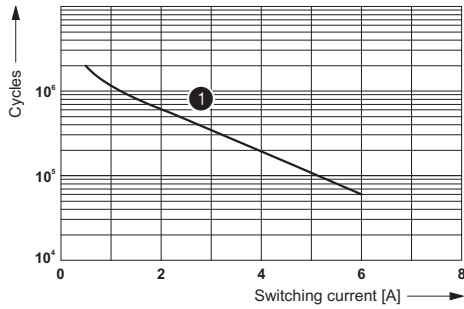
cULus Recognized  

cULus Listed  

## Drawings

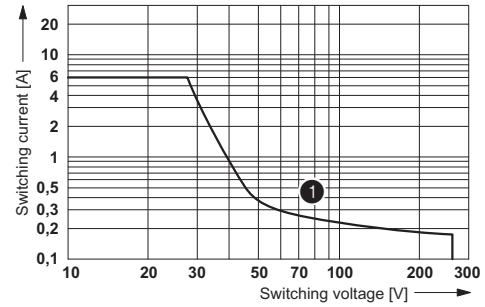
# Relay Module - PLC-RPT- 24UC/21AU/RW - 2900321

Diagram



1 250 V AC, ohmic load

Diagram

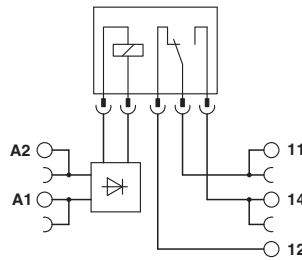


1 ohmic load

Electrical service life

DC interrupting rating

Circuit diagram



Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкуренспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)