

2834685

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Fully mounted relay modules with spring-cage connection, consisting of: relay base, plug-in industrial relay with integrated LED, freewheeling diode and engage/disengage manual actuate lever, and relay retaining bracket. Input voltage: 24 V DC, 2 changeover contacts, 10 A

Your advantages

- Relay with detectable manual operation and status LED
- With DC types, freewheeling diode is integrated in relay
- Logical contact arrangement thanks to 1/3-level relay base
- 4-changeover contact types with multi-layer gold contacts
- Mechanical switch position indicator

Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2834685                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C463                           |
| Product key                          | CK632A                         |
| Catalog page                         | Page 395 (C-7-2013)            |
| GTIN                                 | 4046356044547                  |
| Weight per piece (including packing) | 143.52 g                       |
| Weight per piece (excluding packing) | 124.33 g                       |
| Customs tariff number                | 85364900                       |
| Country of origin                    | JP                             |

# PR2-RSP3-LDP-24DC/2X21 - Relay Module



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## Set consists of

### PR2-BSP3/4X21 - Relay base

2833589

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Relay base PR2-B, for industrial relay REL-IR with 2 or 4 changeover contacts, 1/3-level design, spring-cage connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

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### REL-IR/LDP- 24DC/2X21 - Single relay

2834025

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Plug-in industrial relay with power contacts, 2 changeover contacts, test button, status LED, freewheeling diode, mechanical switching position indicator, polarity

**A1+, A2-**, input voltage 24 V DC

# PR2-RSP3-LDP-24DC/2X21 - Relay Module



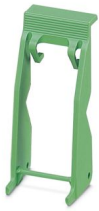
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## EL2-P35 - Retaining bracket

2833592

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Relay retaining bracket, with eject function and integrated equipment marking area (8 x 25 mm), to suit relay base PR2, for 35 mm high industrial relay

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## Technical data

### Product properties

|                         |                           |
|-------------------------|---------------------------|
| Product type            | Relay Module              |
| Application             | Universal                 |
| Operating mode          | 100% operating factor     |
| Mechanical service life | 5x 10 <sup>7</sup> cycles |

### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Pollution degree     | 3  |

### Electrical properties

|                                                 |                                          |
|-------------------------------------------------|------------------------------------------|
| Service life electrical                         | see diagram                              |
| Maximum power dissipation for nominal condition | 0.91 W                                   |
| Test voltage (Winding/contact)                  | 2 kV AC (50 Hz, 1 min., winding/contact) |
| Test voltage (Contact/contact)                  | 2 kV AC (50 Hz, 1 min., contact/contact) |

### Input data

#### Coil side

|                                         |                       |
|-----------------------------------------|-----------------------|
| Nominal input voltage U <sub>N</sub>    | 24 V DC               |
| Input voltage range                     | 18.7 V DC ... 36 V DC |
| Drive and function                      | monostable            |
| Typical input current at U <sub>N</sub> | 38 mA                 |
| Typical response time                   | 13 ms                 |
| Typical release time                    | 5 ms                  |
| Protective circuit                      | Freewheeling diode    |
| Operating voltage display               | Green LED             |

### Output data

#### Switching

|                                       |                       |
|---------------------------------------|-----------------------|
| Contact switching type                | 2 changeover contacts |
| Type of switch contact                | Single contact        |
| Contact material                      | Ag                    |
| Maximum switching voltage             | 250 V AC/DC           |
| Minimum switching voltage             | 5 V                   |
| Limiting continuous current           | 10 A                  |
| Maximum inrush current                | 20 A (15 ms)          |
| Min. switching current                | 1 mA                  |
| Interrupting rating (ohmic load) max. | 240 W (at 24 V DC)    |
|                                       | 144 W (at 48 V DC)    |
|                                       | 108 W (at 60 V DC)    |
|                                       | 72 W (at 110 V DC)    |

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|  |                        |
|--|------------------------|
|  | 110 W (at 220 V DC)    |
|  | 2500 VA (for 250 V AC) |

## Connection data

### Coil side

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection method                | Spring-cage connection                      |
| Stripping length                 | 12 mm                                       |
| Conductor cross section rigid    | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section flexible | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 24 ... 16                                   |

### Contact side

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection method                | Spring-cage connection                      |
| Stripping length                 | 12 mm                                       |
| Conductor cross section rigid    | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section flexible | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 24 ... 16                                   |

## Dimensions

|        |       |
|--------|-------|
| Width  | 31 mm |
| Height | 95 mm |
| Depth  | 84 mm |

## Material specifications

|       |                  |
|-------|------------------|
| Color | green (RAL 6021) |
|-------|------------------|

## Environmental and real-life conditions

### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |

## Standards and regulations

|                       |           |
|-----------------------|-----------|
| Standards/regulations | IEC 60664 |
|                       | EN 50178  |

## Mounting

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

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