

# ST-REL2-KG 48/1 - Relay connectors



2823638

<https://www.phoenixcontact.com/pc/products/2823638>

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Relay connector, fitted with miniature switching relay, contacts (AgNi): Medium to large loads, 1 N/O contact, 48 V AC/DC input voltage, with light indicator, can be plugged into basic terminal blocks

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2823638       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 1 pc          |
| Product key                          | DK6122        |
| GTIN                                 | 4017918077471 |
| Weight per piece (including packing) | 35.14 g       |
| Weight per piece (excluding packing) | 35.14 g       |
| Customs tariff number                | 85364190      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                         |                                |
|-------------------------|--------------------------------|
| Product type            | Relay Module                   |
| Operating mode          | 100% operating factor          |
| Mechanical service life | approx. $2 \times 10^7$ cycles |

### Data management status

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

### Electrical properties

|                                                 |                                            |
|-------------------------------------------------|--------------------------------------------|
| Maximum power dissipation for nominal condition | 0.41 W                                     |
| Test voltage (Winding/contact)                  | 2.5 kV AC (50 Hz, 1 min., winding/contact) |

### Input data

#### Coil side

|                                           |                               |
|-------------------------------------------|-------------------------------|
| Nominal input voltage $U_N$               | 48 V AC/DC                    |
| Input voltage range                       | 43.2 V AC/DC ... 52.8 V AC/DC |
| Input voltage range in reference to $U_N$ | 0.9 ... 1.1                   |
| Drive and function                        | monostable                    |
| Typical input current at $U_N$            | 8.5 mA                        |
| Typical response time                     | 10 ms (with DC)               |
| Typical release time                      | 10 ms (with DC)               |
| Protective circuit                        | Bridge rectifier, varistor    |
| Operating voltage display                 | yes                           |

### Output data

#### Switching

|                                       |                               |
|---------------------------------------|-------------------------------|
| Contact switching type                | Single contact, 1 N/O contact |
| Type of switch contact                | Single contact                |
| Contact material                      | AgNi                          |
| Maximum switching voltage             | 250 V AC/DC                   |
| Limiting continuous current           | 6 A                           |
| Maximum inrush current                | 8 A                           |
| Interrupting rating (ohmic load) max. | 95 W (at 24 V DC)             |
|                                       | 50 W (at 48 V DC)             |
|                                       | 45 W (at 60 V DC)             |
|                                       | 45 W (at 110 V DC)            |
|                                       | 75 W (at 220 V DC)            |
|                                       | 1500 VA (for 250 V AC)        |

### Dimensions

|       |         |
|-------|---------|
| Width | 14.6 mm |
|-------|---------|

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|        |         |
|--------|---------|
| Height | 33 mm   |
| Depth  | 66.5 mm |

## Material specifications

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

## Environmental and real-life conditions

### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -20 °C ... 50 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

## Standards and regulations

|                       |                                            |
|-----------------------|--------------------------------------------|
| Standards/regulations | DIN VDE 0110b, Gr. C for 250 V DC          |
|                       | IEC 60255/DIN VDE 0435 (in relevant parts) |
|                       | DIN EN 50178/VDE 0160 (in relevant parts)  |
|                       | EN 60730/DIN VDE 0631                      |
|                       | DIN VDE 0160 (in relevant parts)           |

## Mounting

|               |                  |
|---------------|------------------|
| Mounting type | Plug-in mounting |
|---------------|------------------|

# ST-REL2-KG 48/1 - Relay connectors

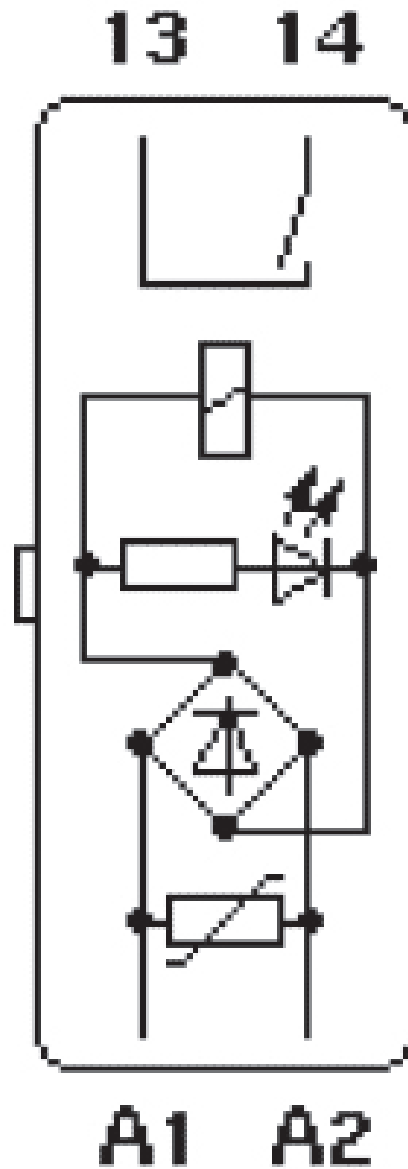
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## Drawings

Circuit diagram



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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39122334 |
|-------------|----------|

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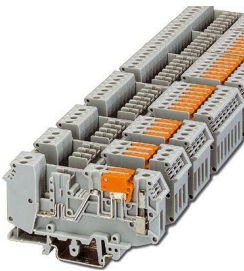
<https://www.phoenixcontact.com/pc/products/2823638>

## Mandatory accessories

### URELG 2-PMTK - Basic terminal block

2820835

<https://www.phoenixcontact.com/pc/products/2820835>



Basic terminal blocks with test pick-off on both sides and knife disconnection for NS 32 and NS 35/7,5 DIN rail, with end cover, for ST-REL..., ST-OV..., and ST-OE... plugs, 2-pos.

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### UDK-RELG 2 - Basic terminal block

2777030

<https://www.phoenixcontact.com/pc/products/2777030>



Basic terminal blocks with test pick-off on both sides and double connections with the same potential for NS 32 and NS 35/7,5 DIN rail, with end cover, for ST-REL..., ST-OV..., and ST-OE... plugs, 2-pos.

# ST-REL2-KG 48/1 - Relay connectors



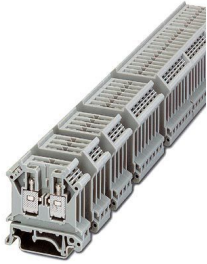
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## URELG 2 - Basic terminal block

2820262

<https://www.phoenixcontact.com/pc/products/2820262>



Basic termination blocks with screw connection for NS 32 and NS 35/7.5 DIN rail, with end cover, for ST-REL..., ST-OV... and ST-OE... plugs, 2-pos.

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## ZFK-RELG 2 - Basic terminal block

2829904

<https://www.phoenixcontact.com/pc/products/2829904>



Basic termination blocks with spring-cage connection for NS 35/7.5 DIN rail, with end cover, for ST-REL..., ST-OV... and ST-OE... plugs, 2-pos.

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## Accessories

# ST-REL2-KG 48/1 - Relay connectors

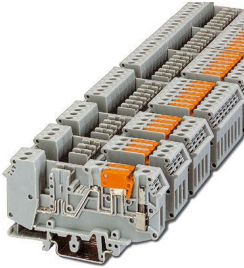
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2777030

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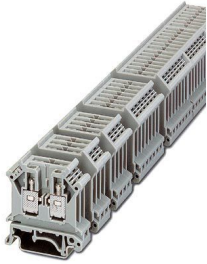
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2820262

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## ZFK-RELG 2 - Basic terminal block

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Basic termination blocks with spring-cage connection for NS 35/7.5 DIN rail, with end cover, for ST-REL..., ST-OV... and ST-OE... plugs, 2-pos.

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