

# ST-REL4-KG120/ 1- 1/AU - Relay connectors



2829470  
<https://www.phoenixcontact.com/us/products/2829470>

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Relay connector, fitted with miniature switching relay, contacts (AgNi+Au): Small to large loads, 2 N/O contacts, 120 V AC/DC input voltage, with light indicator, can be plugged into basic terminal blocks

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2829470                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C460                           |
| Product key                          | CK6124                         |
| Catalog page                         | Page 89 (IF-2005)              |
| GTIN                                 | 4017918078485                  |
| Weight per piece (including packing) | 44.53 g                        |
| Weight per piece (excluding packing) | 44.51 g                        |
| Customs tariff number                | 85364900                       |
| 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 |

### Electrical properties

|   |  |
|---|--|
| Maximum power dissipation for nominal condition | 0.6 W  |
| Test voltage (Winding/contact)                  | 2.5 kV AC (50 Hz, 1 min., winding/contact)         |
| Test voltage (N/O contact / N/O contact)        | 2 kV AC (50 Hz, 1 min., N/O contact / N/O contact) |

### Input data

#### Coil side

|   |                              |
|---|------------------------------|
| Nominal input voltage $U_N$               | 120 V AC/DC                  |
| Input voltage range                       | 96 V AC/DC ... 127.2 V AC/DC |
| Input voltage range in reference to $U_N$ | 0.8 ... 1.06                 |
| Drive and function                        | monostable                   |
| Typical input current at $U_N$            | 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, 2 N/O contact |
| Type of switch contact                | Single contact                |
| Contact material                      | Hard gold plated AgNi         |
| Maximum switching voltage             | 30 V AC/DC                    |
| Limiting continuous current           | 50 mA                         |
| Maximum inrush current                | 50 mA                         |
| Interrupting rating (ohmic load) max. | 1.2 W (at 24 V DC)            |

#### Switching: when the gold layer is destroyed

|                                       |  |
|---------------------------------------|--|
| Note                                  | the following values are applicable if a gold layer is destroyed |
| Maximum switching voltage             | 250 V AC/DC  |
| Limiting continuous current           | 5 A  |
| Maximum inrush current                | 6 A  |
| Interrupting rating (ohmic load) max. | 120 W (at 24 V DC)<br>85 W (at 48 V DC)<br>60 W (at 60 V DC)     |

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|  |                        |
|--|------------------------|
|  | 40 W (at 110 V DC)     |
|  | 60 W (at 220 V DC)     |
|  | 1100 VA (for 250 V AC) |

## Dimensions

|        |         |
|--------|---------|
| Width  | 27 mm   |
| 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

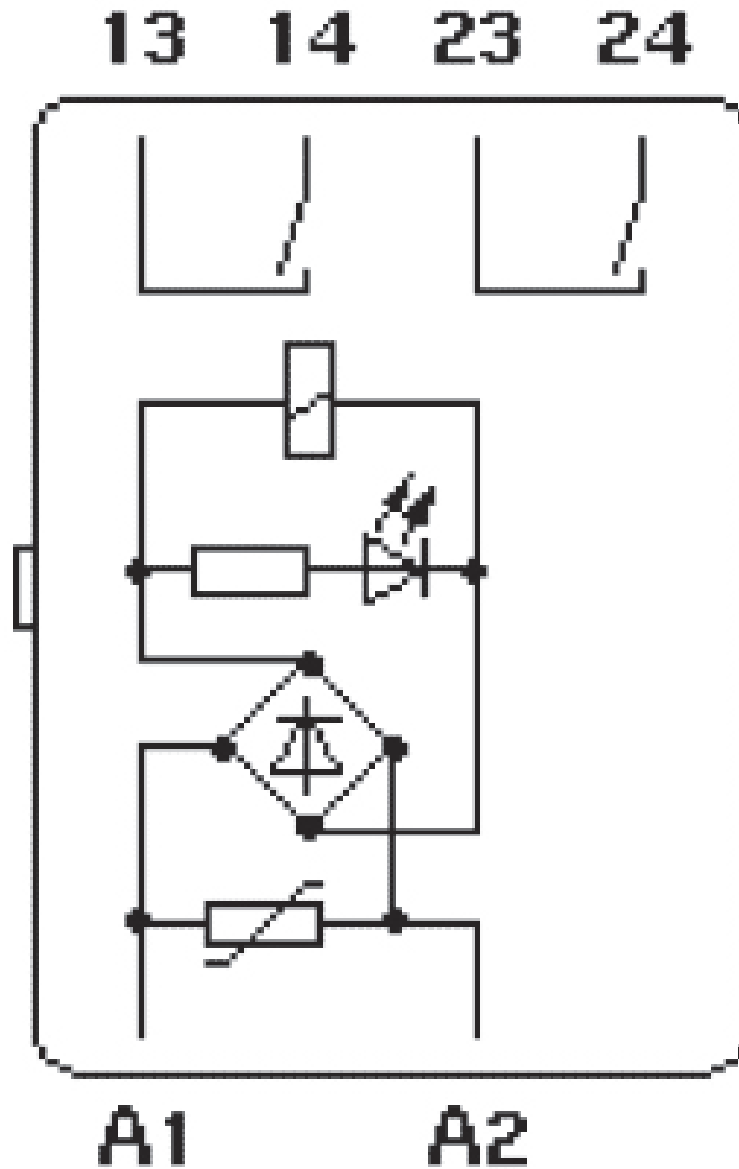
|               |                  |
|---------------|------------------|
| Mounting type | Plug-in mounting |
|---------------|------------------|

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## Drawings

Circuit diagram



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27371601 |
|-------------|----------|

### UNSPSC

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

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## Environmental product compliance

|   |   |
|---|---|
| EU RoHS                                 |   |
| Fulfills EU RoHS substance requirements | Yes   |
| Exemption                               | 7(a)  |
| 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)  |

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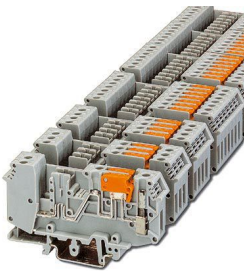
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## Accessories

### URELG 4-PMTK - Basic terminal block

2820712

<https://www.phoenixcontact.com/us/products/2820712>



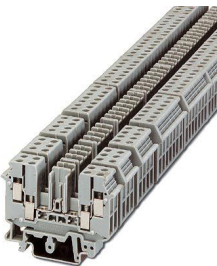
Basic terminal blocks with test pick-off on both sides and knife disconnection for NS 32 and NS 35/7,5 DIN rail, with end cover, for ST-REL..., ST-OV..., and ST-OE... plugs, 4-pos.

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### UDK-RELG 4 - Basic terminal block

2777056

<https://www.phoenixcontact.com/us/products/2777056>



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, 4-pos.

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## URELG 4 - Basic terminal block

2820149

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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, 4-pos.

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