

2829551

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Relay connector, equipped with miniature switching relay, contacts (AgNi+Au): small to large loads, 2 changeover contacts, input voltage 24 V AC/DC, with LED display, pluggable into basic terminal blocks

Commercial data

|                                      |                   |
|--------------------------------------|-------------------|
| Item number                          | 2829551           |
| Packing unit                         | 10 pc             |
| Minimum order quantity               | 1 pc              |
| Product key                          | CK6124            |
| Catalog page                         | Page 89 (IF-2005) |
| GTIN                                 | 4017918078508     |
| Weight per piece (including packing) | 45.75 g           |
| Weight per piece (excluding packing) | 45.75 g           |
| Customs tariff number                | 85364190          |
| Country of origin                    | DE                |

# ST-REL4-KG 24/21-21/AU - Relay connectors



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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      | 0.46 W                                                         |
| Test voltage (Winding/contact)                       | 2.5 kV AC (50 Hz, 1 min., winding/contact)                     |
| Test voltage (Changeover contact/changeover contact) | 1 kV AC (50 Hz, 1 min., changeover contact/changeover contact) |

### Input data

#### Coil side

|                                |                                       |
|--------------------------------|---------------------------------------|
| Nominal input voltage $U_N$    | 24 V AC/DC                            |
| Input voltage range            | 19.2 V AC/DC ... 26.4 V AC/DC (20 °C) |
| Drive and function             | monostable                            |
| Drive (polarity)               | polarized                             |
| Typical input current at $U_N$ | 19 mA                                 |
| Typical response time          | 9 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                | 2 changeover contacts |
| 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           | 3 A                                                              |
| Maximum inrush current                | 5 A                                                              |
| Interrupting rating (ohmic load) max. | 70 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)    |
|  | 750 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

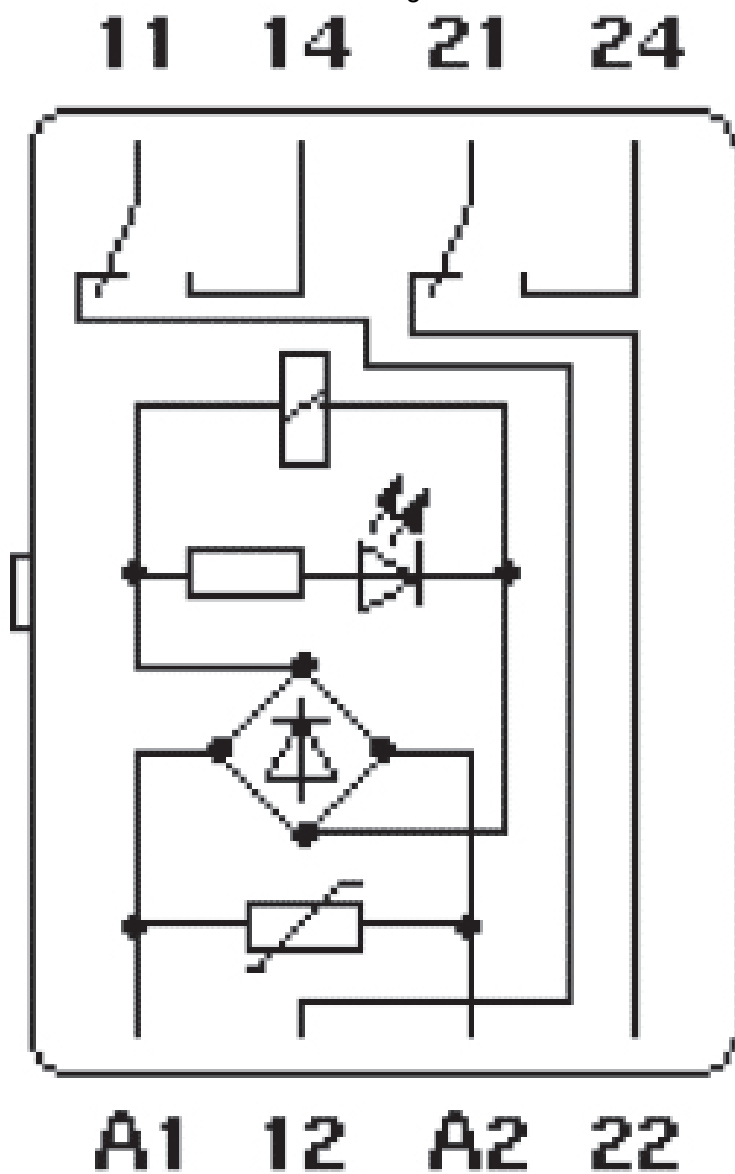
|               |                  |
|---------------|------------------|
| Mounting type | Plug-in mounting |
|---------------|------------------|

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## Drawings

Circuit diagram



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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2829551>



**EAC**

Approval ID: TR\_TS\_D\_00573\_c

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27371601 |
| ECLASS-12.0 | 27371601 |
| ECLASS-13.0 | 27371601 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC001437 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39122300 |
|-------------|----------|

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## Environmental product compliance

|            |                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                               |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                               |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstraße 8  
D-32825 Blomberg  
+49 (0) 5235-3 00  
[info@phoenixcontact.com](mailto:info@phoenixcontact.com)