

ST-REL4-KG230/21-21/AU - Relay connectors



2826431

<https://www.phoenixcontact.com/us/products/2826431>

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Relay connector, equipped with miniature switching relay, contacts (AgNi+Au): small to large loads, 2 changeover contacts, input voltage 230 V AC/DC, with LED display, pluggable into basic terminal blocks

The figure shows version ST-REL 4-KG 24/21-21/AU

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2826431 |
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Product key | DK61B2 |
| GTIN | 4017918077914 |
| Weight per piece (including packing) | 46 g |
| Weight per piece (excluding packing) | 46 g |
| 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. 2×10^7 cycles |

Data management status

| | |
|------------------------------|------------|
| Date of last data management | 01.04.2026 |
|------------------------------|------------|

Electrical properties

| | |
|--|--|
| Maximum power dissipation for nominal condition | 1.15 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 | 230 V AC/DC |
| Input voltage range | 207 V AC/DC ... 253 V AC/DC (20 °C) |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at U_N | 5 mA |
| Typical response time | 6 ms (with DC) |
| Typical release time | 7 ms (with DC) |
| Protective circuit | Bridge rectifier; Bridge rectifier Surge protection; 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 250 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) 5 VA (for 24 V AC) |

Switching: when the gold layer is destroyed

| | |
|------|--|
| Note | the following values are applicable if a gold layer is destroyed |
|------|--|

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| | |
|---------------------------------------|-----------------------|
| 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) |
| | 85 W (at 48 V DC) |
| | 60 W (at 60 V DC) |
| | 40 W (at 110 V DC) |
| | 55 W (at 220 V DC) |
| | 750 VA (for 250 V AC) |

Dimensions

Item 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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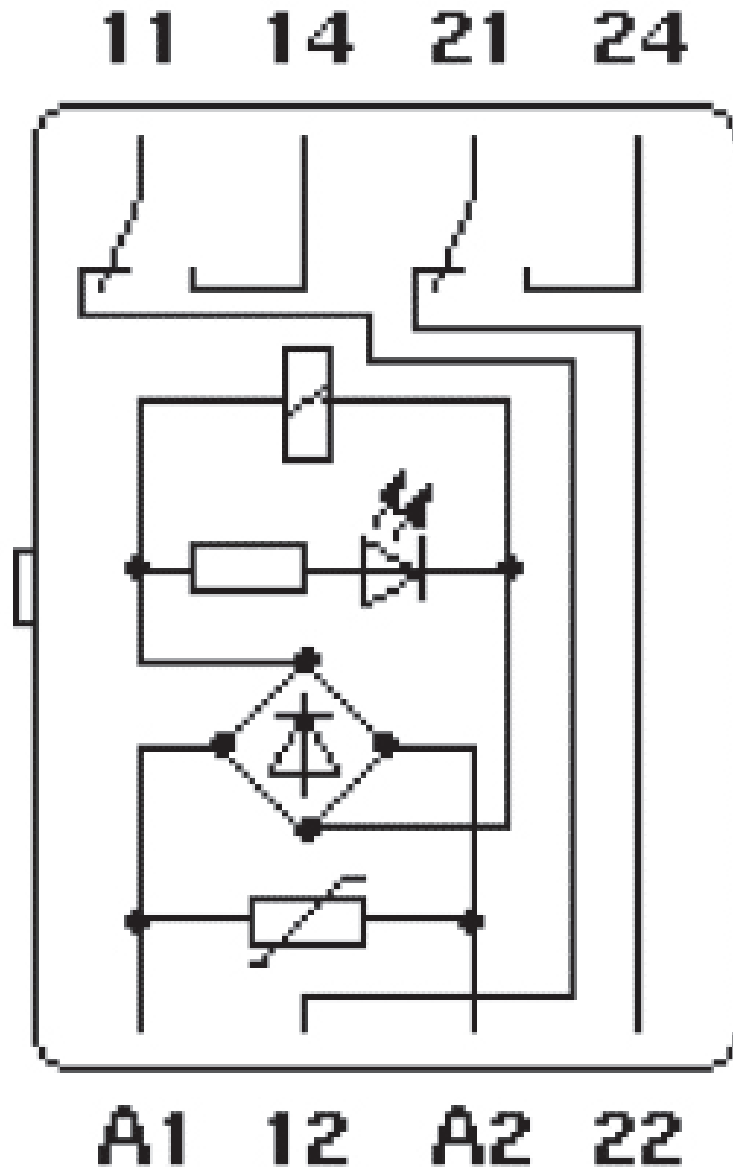


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Drawings

Circuit diagram



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27371601 |
| ECLASS-15.0 | 27371601 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001437 |
|-----------|----------|

UNSPSC

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

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Environmental product compliance

EU RoHS

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

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) |
| SCIP | 30fa7f0f-3961-41e3-ad56-6713b3d45ede |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 1.105 kg CO2e |
|---------|---------------|

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Phoenix Contact USA
 586 Fulling Mill Road
 Middletown, PA 17057, United States
 (+717) 944-1300
info@phoenixcon.com