

Relay Module - DEK-REL- 24/1/SEN - 2964050

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Relay terminal block for sensor, with soldered-in miniature relays, contact (AgNi+Au): small to medium loads, 1 N/O contact, input voltage 24 V AC/DC, for assembly on NS 35/7.5, terminal width 6.2 mm

Product Features

- Reduced costs as N terminal block is no longer required
- Wiring reduced to a minimum
- Up to 73% more space
- Integrated input circuit
- 2 kVrms electrical isolation between input and output
- 2-layer contact with hard gold plating for universal applications from 1 mA to 5 A continuous current



Key commercial data

| | |
|------------------|---------------|
| package_quantity | 10 |
| GTIN | 4017918099367 |

Technical data

Note:

| | |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

Dimensions

| | |
|--------|--------|
| Width | 6.2 mm |
| Height | 80 mm |
| Depth | 56 mm |

Ambient conditions

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

Coil side

| | |
|---|-------------|
| Nominal input voltage U_N | 24 V AC/DC |
| Nominal input voltage U_N | 24 V DC |
| Nominal input voltage U_N | 24 V AC |
| Input voltage range in reference to U_N | 0.8 ... 1.1 |

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Technical data

Coil side

| | |
|-----------------------------------|-----------------------------------|
| Nominal input current at U_{IN} | 6.5 mA |
| Typical response time | 5 ms |
| Typical release time | 15 ms |
| Operating voltage display | Yellow LED |
| Protective circuit | Bridge rectifier Bridge rectifier |

Contact side

| | |
|---------------------------------------|---------------------------------|
| Contact type | 1 N/O contact |
| Contact material | AgNi, hard gold-plated |
| Maximum switching voltage | 250 V AC |
| Maximum switching voltage | 125 V DC |
| Minimum switching voltage | 0.1 V |
| Maximum inrush current | 5 A |
| Min. switching current | 1 mA |
| Limiting continuous current | 3 A (5 A up to 35°C at 24 V DC) |
| Interrupting rating (ohmic load) max. | 72 W (at 24 V DC) |
| Interrupting rating (ohmic load) max. | 60 W (at 48 V DC) |
| Interrupting rating (ohmic load) max. | 50 W (at 60 V DC) |
| Interrupting rating (ohmic load) max. | 50 W (at 110 V DC) |
| Interrupting rating (ohmic load) max. | 750 VA (for 250 V AC) |
| Interrupting rating (ohmic load) max. | 120 W (at 24 V DC - up to 35°) |

General

| | |
|--|--------------------------------|
| Test voltage relay winding/relay contact | 2 kV AC (50 Hz, 1 min.) |
| Operating mode | 100% operating factor |
| Mechanical service life | Approx. 2×10^7 cycles |
| Standards/regulations | IEC 60664 |
| Standards/regulations | EN 50178 |
| Standards/regulations | IEC 62103 |
| Rated surge voltage / insulation | Basic insulation |
| Pollution degree | 2 |
| Surge voltage category | III |
| Mounting position | Any |
| Assembly instructions | In rows with zero spacing |

Connection data

| | |
|--|---------------------|
| Connection method | Screw connection |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 14 |

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Technical data

Connection data

| | |
|------------------|------|
| Stripping length | 8 mm |
| Screw thread | M3 |

classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27371102 |
| eCl@ss 4.1 | 27371102 |
| eCl@ss 5.0 | 27371001 |
| eCl@ss 5.1 | 27371001 |
| eCl@ss 6.0 | 27371001 |
| eCl@ss 7.0 | 27371001 |
| eCl@ss 8.0 | 27371001 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001437 |
| ETIM 3.0 | EC001437 |
| ETIM 4.0 | EC001437 |
| ETIM 5.0 | EC001437 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211916 |
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11 | 39121515 |
| UNSPSC 12.01 | 39121515 |
| UNSPSC 13.2 | 39121515 |

approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized /

Approval details



Relay Module - DEK-REL- 24/1/SEN - 2964050

approvals



accessories

Partition plate

D-DEK 1,5 GN - 2716949



Bridge

EB 2- DIK RD - 2716693



EB 3- DIK RD - 2716745



EB 4- DIK RD - 2716758



Relay Module - DEK-REL- 24/1/SEN - 2964050

accessories

EB 5- DIK RD - 2716761



EB 10- DIK RD - 2716774



EB 2- DIK BU - 2716648



EB 3- DIK BU - 2716651



EB 4- DIK BU - 2716664



EB 5- DIK BU - 2716677



Relay Module - DEK-REL- 24/1/SEN - 2964050

accessories

EB 10- DIK BU - 2716680



EB 80- DIK BU - 2715940



EB 80- DIK RD - 2715953



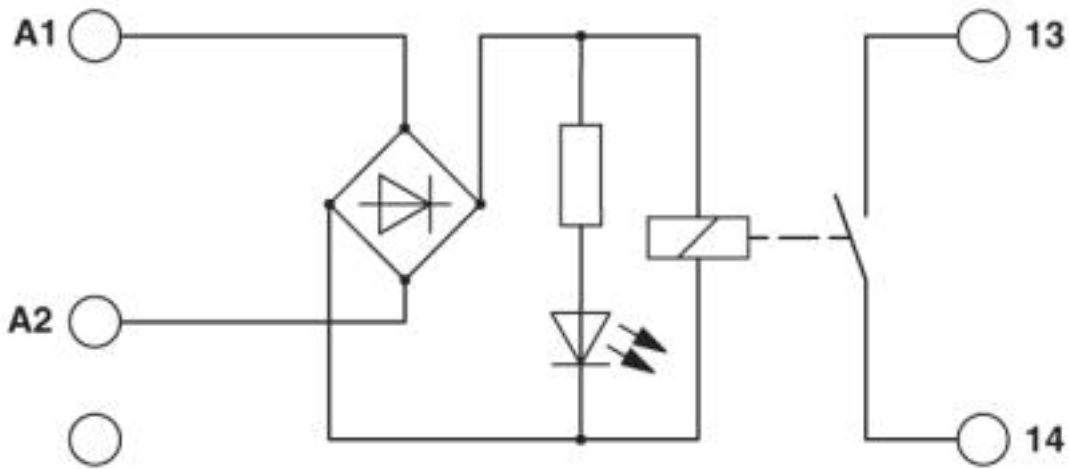
EB 80- DIK WH - 2715788



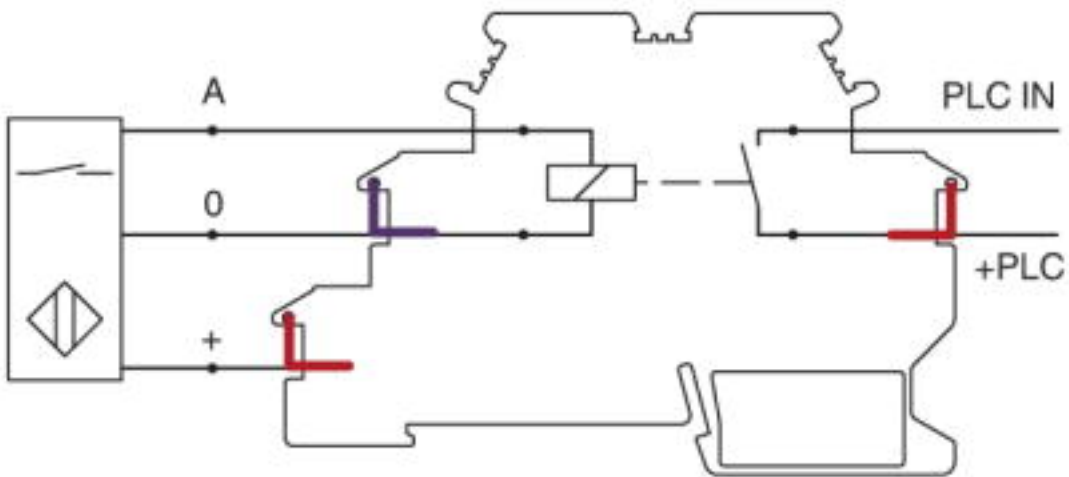
Drawings

Relay Module - DEK-REL- 24/1/SEN - 2964050

Circuit diagram



Schematic diagram



Pin configuration DEK-REL-...SEN

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