

## 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

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 017918 099367 |
| Weight per Piece (excluding packing) | 24.0 GRM  |
| Custom tariff number                 | 85364190  |
| Country of origin                    | China   |

### 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  |

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## Technical data

### Dimensions

|       |       |
|-------|-------|
| 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                        |
|   | 24 V DC                           |
|   | 24 V AC                           |
| Input voltage range in reference to $U_N$ | 0.8 ... 1.1                       |
| Typical input current at $U_N$            | 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                        |
|                                       | 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)               |
|                                       | 60 W (at 48 V DC)               |
|                                       | 50 W (at 60 V DC)               |
|                                       | 50 W (at 110 V DC)              |
|                                       | 750 VA (for 250 V AC)           |
|                                       | 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. $2 \times 10^7$ cycles |
| Standards/regulations                    | IEC 60664                      |
|  | EN 50178                       |

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## Technical data

### General

|                                  |                           |
|----------------------------------|---------------------------|
|                                  | 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    |
| Stripping length                       | 8 mm                |
| Conductor cross section stranded min.  | 0.2 mm <sup>2</sup> |
| Conductor cross section stranded max.  | 2.5 mm <sup>2</sup> |
| Conductor cross section solid min.     | 0.2 mm <sup>2</sup> |
| Conductor cross section solid max.     | 2.5 mm <sup>2</sup> |
| Conductor cross section AWG/kcmil max  | 14                  |
| Conductor cross section AWG/kcmil min. | 24                  |
| Screw thread                           | M3                  |
| Tightening torque max                  | 0.5 Nm              |

## 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 |
|-------------|----------|

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## Classifications

### UNSPSC

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

## Approvals

### Approvals

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Approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized

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Ex Approvals


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Approvals submitted

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### Approval details

UL Recognized 

cUL Recognized 

GOST 

cULus Recognized 

## Accessories

Accessories

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

### Accessories

#### Insertion bridge

Insertion bridge - EB 2- DIK RD - 2716693



Insertion bridge, Number of positions: 2, Color: red

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Insertion bridge - EB 3- DIK RD - 2716745



Insertion bridge, Number of positions: 3, Color: red

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Insertion bridge - EB 4- DIK RD - 2716758



Insertion bridge, Number of positions: 4, Color: red

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Insertion bridge - EB 5- DIK RD - 2716761



Insertion bridge, Number of positions: 5, Color: red

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Insertion bridge - EB 10- DIK RD - 2716774



Insertion bridge, Number of positions: 10, Color: red

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

### Accessories

Insertion bridge - EB 2- DIK BU - 2716648



Insertion bridge, Number of positions: 2, Color: blue

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Insertion bridge - EB 3- DIK BU - 2716651



Insertion bridge, Number of positions: 3, Color: blue

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Insertion bridge - EB 4- DIK BU - 2716664



Insertion bridge, Number of positions: 4, Color: blue

---

Insertion bridge - EB 5- DIK BU - 2716677



Insertion bridge, Number of positions: 5, Color: blue

---

Insertion bridge - EB 10- DIK BU - 2716680



Insertion bridge, Number of positions: 10, Color: blue

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

### Accessories

Insertion bridge - EB 80- DIK BU - 2715940



Insertion bridge, Number of positions: 80, Color: blue

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Insertion bridge - EB 80- DIK RD - 2715953



Insertion bridge, Number of positions: 80, Color: red

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Insertion bridge - EB 80- DIK WH - 2715788



Insertion bridge, Number of positions: 80, Color: white

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### Labeled terminal marker

Zack marker strip - ZB 6,LGS:FORTL.ZAHLEN - 1051016



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

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### Partition plate

Separating plate - D-DEK 1,5 GN - 2716949



Cover for setting the end of a terminal row, color: green

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## Accessories

### Sensor/actuator terminal block

Sensor/actuator terminal block - DIKD 1,5 - 2715979



Sensor/actuator terminal block, Cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 24 - 12, Connection type: Screw connection, Width: 6.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

### Terminal marking

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

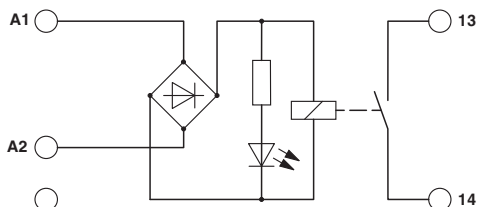
Zack marker strip - ZB 6/WH-100:UNBEDRUCKT - 5060935



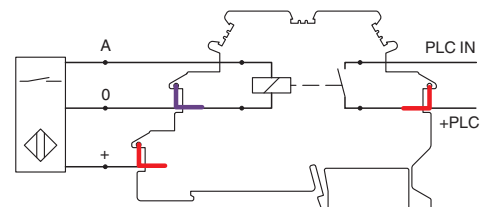
Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

## Drawings

Circuit diagram



Schematic diagram



Pin configuration DEK-REL-...SEN



