

# DEK-OE- 48DC/ 48DC/100/T - Solid-state relay terminal block



2940281

<https://www.phoenixcontact.com/us/products/2940281>

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Input solid-state relay terminal block, input: 48 V DC, output: 3 - 48 V DC/100 mA, with isolating plug in output, terminal block width: 6.2 mm

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2940281                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C460                           |
| Product key                          | CK61D1                         |
| Catalog page                         | Page 71 (IF-2002)              |
| GTIN                                 | 4017918079987                  |
| Weight per piece (including packing) | 23.37 g                        |
| Weight per piece (excluding packing) | 22.97 g                        |
| Customs tariff number                | 85364190                       |
| Country of origin                    | CN                             |

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## Technical data

### Notes

|                         |   |
|-------------------------|---|
| General                 | The housing is open on one side. The appropriate cover is D-DEK 1,5 GN (2716949). |
| Utilization restriction |   |
| EMC note                | EMC: class A product, see manufacturer's declaration in the download area         |

### Product properties

|                |                          |
|----------------|--------------------------|
| Product type   | Solid-state relay module |
| Product family | DEK                      |
| Application    | Input function           |
| Operating mode | 100% operating factor    |

|                            |     |
|----------------------------|-----|
| Insulation characteristics |     |
| Oversupply category        | III |
| Pollution degree           | 2   |

### Electrical properties

|                             |                          |
|-----------------------------|--------------------------|
| Test voltage (Input/output) | 2.5 kV AC (Input/output) |
|-----------------------------|--------------------------|

### Input data

|   |   |
|---|---|
| Nominal input voltage $U_N$               | 48 V DC                                       |
| Input voltage range in reference to $U_N$ | 0.9 ... 1.1                                   |
| Input voltage range                       | 43.2 V DC ... 52.8 V DC                       |
| Switching threshold "0" signal, voltage   | $\leq 19$ V                                   |
| Switching threshold "1" signal voltage    | $\geq 40$ V                                   |
| Typical input current at $U_N$            | 5 mA  |
| Typical response time                     | 40 $\mu$ s (delay)                            |
| Typical turn-off time                     | 40 $\mu$ s (delay)                            |
| Status display                            | Yellow LED                                    |
| Protective circuit                        | Reverse polarity protection; Bridge rectifier |
| Transmission frequency                    | 30 Hz   |

### Output data

|  |  |
|--|--|
| Contact switching type                           | 1 N/O contact  |
| Design of digital output                         | electronic   |
| Output voltage range                             | 3 V DC ... 48 V DC                                     |
| Limiting continuous current                      | 100 mA   |
| Voltage drop at max. limiting continuous current | $\leq 0.9$ V   |
| Output circuit                                   | 2-conductor, floating                                  |
| Protective circuit                               | Reverse polarity protection; Polarity protection diode |
|  | Surge protection                                       |

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## Connection data

|                                  |   |
|----------------------------------|---|
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm  |
| Screw thread                     | M3  |
| Conductor cross section rigid    | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 24 ... 14                                   |
| Tightening torque                | 0.5 Nm                                      |

## Dimensions

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

## Environmental and real-life conditions

### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

## Standards and regulations

|                       |              |
|-----------------------|--------------|
| Standards/regulations | IEC 60664    |
|                       | IEC 60664A   |
|                       | DIN VDE 0110 |

## Mounting

|                       |                           |
|-----------------------|---------------------------|
| Mounting type         | DIN rail mounting         |
| Assembly instructions | in rows with zero spacing |
| Mounting position     | any                       |

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## Classifications

### ECLASS

ECLASS-11.0

27371604

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## Environmental product compliance

|            |  |
|------------|--|
| China RoHS | Environmentally Friendly Use Period = 50 years<br>For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |
|------------|--|

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## Accessories

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

2716949

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



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