

# DEK-OE- 5DC/ 48DC/100 - Solid-state relay terminal block



2940223

<https://www.phoenixcontact.com/us/products/2940223>

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Input solid-state relay terminal block, input: 5 V DC, output: 3 - 48 V DC/100 mA, terminal block width: 6.2 mm

## Your advantages

- Actuator version available
- EB-DIK insertion bridges
- Labeling and mounting with user-friendly modular terminal blocks
- Wear-free switching of up to 24 V DC/10 A or 240 V AC/800 mA
- Integrated output protective circuit
- Integrated input circuit
- Electrical isolation between input and output at up to 2.5 kVrms
- Zero voltage switch at AC output
- Status indicator

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2940223       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C460          |
| Product key                          | DK61A1        |
| GTIN                                 | 4017918079925 |
| Weight per piece (including packing) | 21.21 g       |
| Weight per piece (excluding packing) | 20.21 g       |
| Customs tariff number                | 85364190      |
| Country of origin                    | CN            |

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## Technical data

### Notes

|                     |   |
|---------------------|---|
| Note on application | Use of EB 80-DIK... bridges in the DEK terminal blocks:<br>Absorption of humidity from the ambient air as well as an unfavorable tolerance between a larger number of DEK terminal blocks and the EB 80-DIK... bridge may cause (minor) expansion of the DEK housing. When the EB 80-DIK... bridges are used, therefore, it is recommended that these be disconnected after about 10 to 12 DEK terminal blocks and a wire bridge to the next DEK terminal block be inserted in their place. |
|---------------------|---|

### Product properties

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

### Insulation characteristics: Standards/regulations

|                      |                  |
|----------------------|------------------|
| Insulation           | Basic insulation |
| Overvoltage category | III              |
| Pollution degree     | 2                |

### Data management status

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

### Electrical properties

|                             |   |
|-----------------------------|---|
| Test voltage (Input/output) | 2.5 kV AC (50 Hz, 1 min., input/output) |
|-----------------------------|---|

### Input data

|  |                             |
|--|-----------------------------|
| Nominal input voltage $U_N$                          | 5 V DC                      |
| Input voltage range in reference to $U_N$            | 0.9 ... 1.1                 |
| Input voltage range                                  | 4.5 V DC ... 5.5 V DC       |
| Switching threshold "0" signal in reference to $U_N$ | $\leq 0.4$                  |
| Switching threshold "1" signal in reference to $U_N$ | $\geq 0.8$                  |
| Typical input current at $U_N$                       | 6.5 mA                      |
| Typical response time                                | 20 $\mu$ s                  |
| Typical turn-off time                                | 200 $\mu$ s                 |
| Operating voltage display                            | Yellow LED                  |
| Protective circuit                                   | Reverse polarity protection |
| Transmission frequency                               | 300 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             |

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|  |  |
|--|--|
| Voltage drop at max. limiting continuous current | ≤ 0.9 V  |
| Output circuit                                   | 2-conductor floating, 3-conductor ground-referenced  |
| Protective circuit                               | Reverse polarity protection; Polarity protection diode<br>Freewheeling diode; Freewheeling diode |
| Output resistor                                  | approx. 22 kΩ (for 3-conductor operation)  |

## 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                | 0.4 Nm ... 0.5 Nm                           |

## Dimensions

### Item dimensions

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

## Material specifications

|       |                  |
|-------|------------------|
| Color | green (RAL 6021) |
|-------|------------------|

## 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

|                       |               |
|-----------------------|---------------|
| Standards/regulations | IEC 60947-5-1 |
|-----------------------|---------------|

## Mounting

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

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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2940223>



**EAC**

Approval ID: RU C-DE.A\*30.B.01742

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27371604 |
| ECLASS-15.0 | 27371604 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001504 |
|-----------|----------|

### 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                                | 337f95b8-752c-4983-819b-9f52922e252b        |

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