

DEK-OE- 5DC/ 24DC/100KHZ-G - Solid-state relay terminal block



2964555
<https://www.phoenixcontact.com/it/products/2964555>

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Input solid-state relay, with DC voltage output push-pull, transmission frequency: 100 kHz, with light indicator and protective circuit in input and output circuits, input: 5 V DC, output: 14 - 30 V DC/50 mA

Your advantages

- With capacitor on the input side for interference suppression
- Includes signal inputs on PLC counter boards
- Push/pull stage on output side
- Limit frequency of up to 100 kHz

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 2964555 |
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Sales key | CK6 |
| Product key | CK61D1 |
| Catalog page | Page 453 (C-5-2019) |
| GTIN | 4017918130992 |
| Weight per piece (including packing) | 21.7 g |
| Weight per piece (excluding packing) | 21.7 g |
| Customs tariff number | 85364190 |
| Country of origin | CN |

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Technical data

Notes

| | |
|---------|---|
| General | Use of EB 80-DIK... bridges in the DEK terminal blocks: 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 | 100 kHz input optocoupler |
| Operating mode | 100% operating factor |

Insulation characteristics

| | |
|------------|------------------|
| Insulation | Basic insulation |
|------------|------------------|

Insulation characteristics

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

Electrical properties

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

Input data

| | |
|--|--|
| Nominal input voltage U_N | 5 V DC |
| Input voltage range in reference to U_N | 0.5 ... 1.2 |
| Input voltage range | 2.5 V DC ... 6 V DC |
| Switching threshold "0" signal in reference to U_N | ≤ 0.3 |
| Switching threshold "1" signal in reference to U_N | ≥ 0.5 |
| Typical input current at U_N | 8 mA |
| Typical response time | 1 μ s |
| Typical turn-off time | 2 μ s |
| Operating voltage display | Yellow LED |
| Protective circuit | Reverse polarity protection; Polarity protection diode |
| | Surge protection |
| Transmission frequency | 100 kHz |

Output data

| | |
|------------------------|---------------|
| Contact switching type | 1 N/O contact |
|------------------------|---------------|

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| | |
|--|--|
| Design of digital output | electronic |
| Output voltage range | 14 V DC ... 30 V DC |
| Limiting continuous current | 50 mA |
| Quiescent current | 15 mA |
| Voltage drop at max. limiting continuous current | ≤ 2.2 V DC |
| Output circuit | 3-conductor push-pull, ground referenced |
| Protective circuit | Surge protection; Suppressor diode |

Connection data

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

Dimensions

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

Material specifications

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|-------|------------------|
| 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 | IEC 60947-5-1 |
|-----------------------|---------------|

Mounting

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

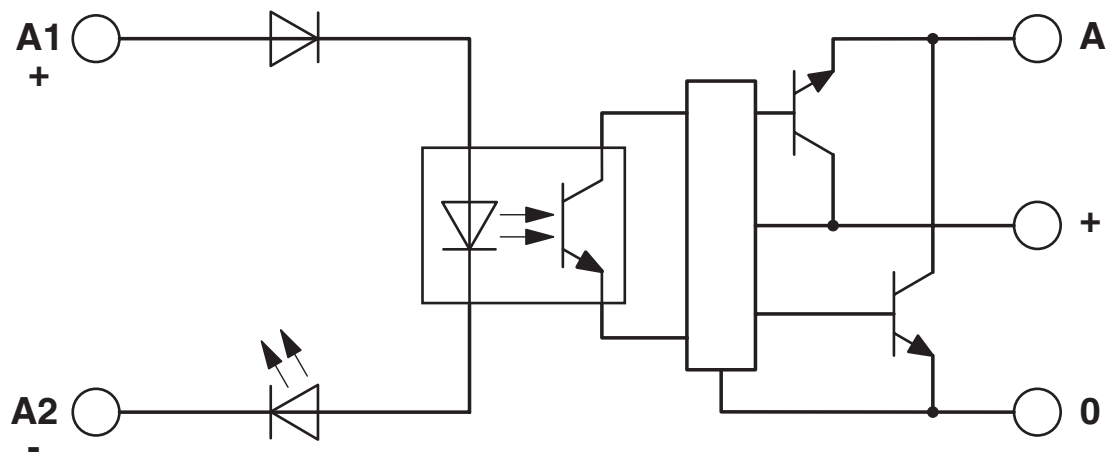
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Drawings

Circuit diagram



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Approvals

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EAC

Approval ID: TR_TS_D_00573_c

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27371604 |
| ECLASS-12.0 | 27371604 |
| ECLASS-13.0 | 27371604 |

ETIM

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| ETIM 9.0 | EC001504 |
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UNSPSC

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

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Environmental product compliance

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|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| | Hexahydromethylphthalic anhydride |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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