

OPT-60DC/ 24DC/ 5 - Miniature solid-state relay



2982126

<https://www.phoenixcontact.com/us/products/2982126>

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Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 60 V DC, output: 3 - 33 V DC/5 A

Your advantages

- Vibration and shock resistant
- RT III-proof (wash-proof)
- Wear-free and durable
- Zero voltage switch at AC output
- Switching power of up to 24 V DC/5 A
- Can be soldered on PCB

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2982126 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Note | Made to order (non-returnable) |
| Sales key | C460 |
| Product key | DK69L1 |
| GTIN | 4017918989767 |
| Weight per piece (including packing) | 12.12 g |
| Weight per piece (excluding packing) | 10.73 g |
| Customs tariff number | 85364190 |
| Country of origin | HU |

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Technical data

Product properties

| | |
|----------------|--------------------------|
| Product type | Single solid-state relay |
| 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

| | |
|---|--------------------------------------|
| Maximum power dissipation for nominal condition | 0.18 W |
| Test voltage (Input/output) | 2.5 kV (50 Hz, 1 min., input/output) |

Standards/regulations

| | |
|--------------------------|----------|
| Rated insulation voltage | 100 V DC |
|--------------------------|----------|

Input data

| | |
|---|--|
| Nominal input voltage U_N | 60 V DC |
| Input voltage range in reference to U_N | 0.9 ... 1.1 |
| Input voltage range | 54 V DC ... 66 V DC |
| Switching threshold "0" signal, voltage | ≤ 20 V DC |
| Switching threshold "1" signal voltage | ≥ 35 V DC |
| Typical input current at U_N | 3 mA |
| Typical response time | 25 μ s |
| Typical turn-off time | 400 μ s |
| Protective circuit | Reverse polarity protection; Polarity protection diode |
| Transmission frequency | 300 Hz |

Output data

| | |
|--|--|
| Contact switching type | 1 N/O contact |
| Design of digital output | electronic |
| Output nominal voltage | 24 V DC |
| Output voltage range | 3 V DC ... 33 V DC |
| Limiting continuous current | 5 A (see derating curve) |
| Maximum inrush current | 15 A (10 ms) |
| Surge voltage protection | > 33 V DC |
| Voltage drop at max. limiting continuous current | ≤ 200 mV |
| Output circuit | 2-conductor, floating |
| Protective circuit | Reverse polarity protection; Polarity protection diode Surge protection |

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Dimensions

| | |
|---------------------|---------|
| Dimensional drawing | |
| Width | 12.7 mm |
| Height | 29 mm |
| Depth | 15.7 mm |

Material specifications

| | |
|--|------------------|
| Color | black (RAL 9005) |
| Flammability rating according to UL 94 (Housing) | V0 (Housing) |

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------|
| Degree of protection | RT III |
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |

Approvals

Corrosive gas test

| | |
|----------------|---|
| Identification | ISA-S71.04. G3 Harsh Group EN 60068-2-60 |
|----------------|---|

Standards and regulations

Standards/regulations

| | |
|-----------------------|-----------------------|
| Standards/regulations | IEC 60664 EN 50178 |
|-----------------------|-----------------------|

Mounting

| | |
|-------------------|---------------------------|
| Assembly note | in rows with zero spacing |
| Mounting position | any |

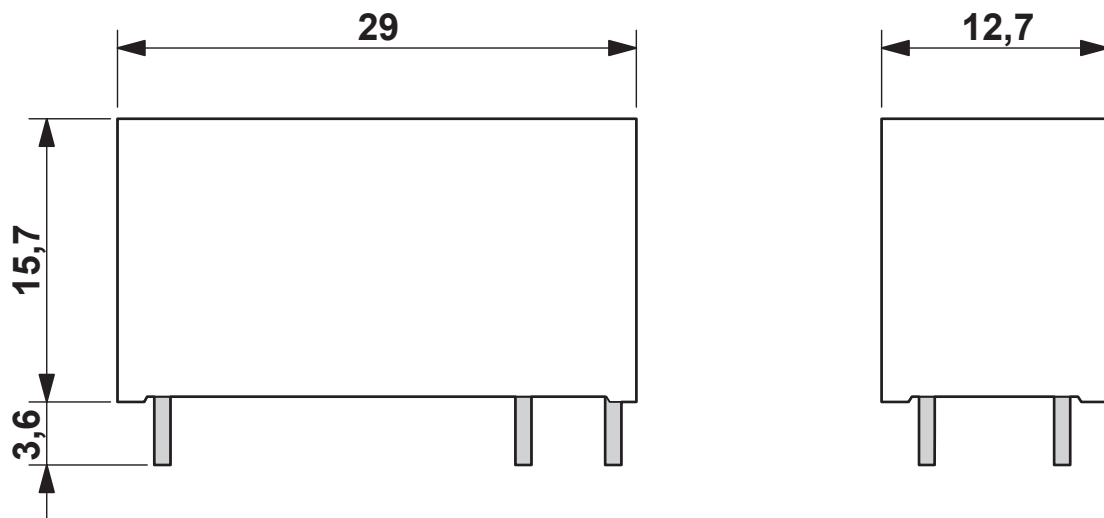
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Drawings

Dimensional drawing



Diagram



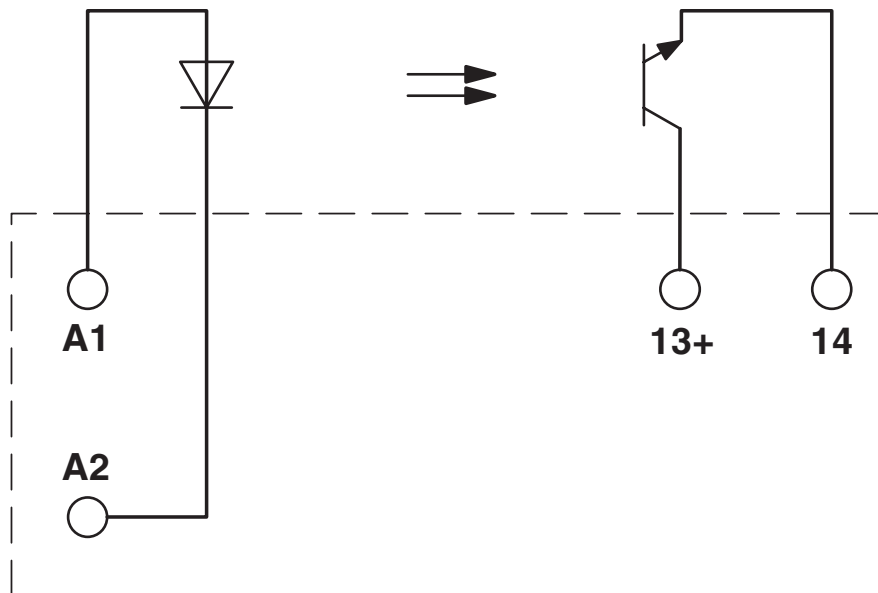
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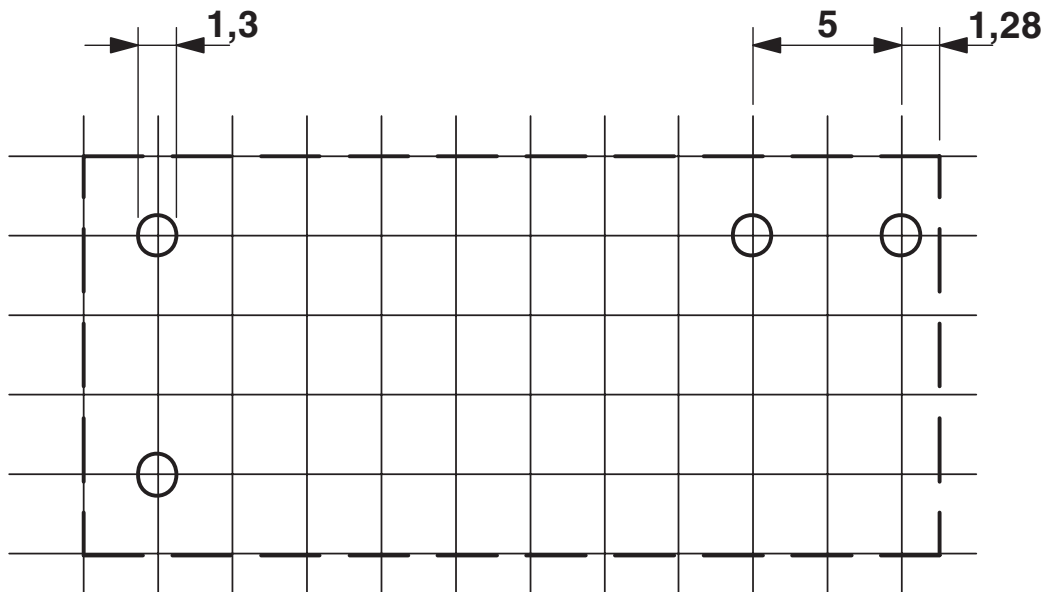
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Circuit diagram



Pin assignments: View of the connections

Drilling plan/solder pad geometry



Basic pitch 2.5 mm

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Classifications

ECLASS

ECLASS-13.0

27371604

ETIM

ETIM 9.0

EC001504

UNSPSC

UNSPSC 21.0

39122300

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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