

# ST-OV2- 5DC/ 60DC/1 - Solid-state relay



2905019

<https://www.phoenixcontact.com/us/products/2905019>

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Plug-in power solid-state relay, with LED and protective circuit in input and output circuits, input: 5 V DC, output: 12 - 60 V DC/max. 1 A, can be plugged into basic terminal blocks

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2905019                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | NULL                           |
| Product key                          | DK61B2                         |
| GTIN                                 | 4017918079154                  |
| Weight per piece (including packing) | 25.44 g                        |
| Weight per piece (excluding packing) | 24.3 g                         |
| Customs tariff number                | 85364190                       |
| Country of origin                    | DE                             |

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## Technical data

### Notes

#### Utilization restriction

|          |   |
|----------|---|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---|

### Product properties

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

#### Data management status

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

### 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 $U_N$            | 0.8 ... 1.2  |
| Input voltage range                                  | 4 V DC ... 6 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 $U_N$                       | 7 mA   |
| Typical response time                                | 20 $\mu$ s   |
| Typical turn-off time                                | 200 $\mu$ s  |
| Status display                                       | LED (yellow)   |
| Protective circuit                                   | Reverse polarity protection; Polarity protection diode<br>Surge protection |
| Transmission frequency                               | 500 Hz   |

### Output data

|  |  |
|--|--|
| Design of digital output                         | electronic   |
| Output voltage range                             | 12 V DC ... 60 V DC  |
| Limiting continuous current                      | 1 A (see derating curve)   |
| Maximum inrush current                           | 5 A ( $t = 1$ s)   |
| Peak offstate voltage                            | 60 V DC (Collector-emitter reverse voltage)                                |
| Voltage drop at max. limiting continuous current | 1.2 V  |
| Output circuit                                   | 2-conductor, floating  |
| Protective circuit                               | Reverse polarity protection; Polarity protection diode<br>Surge protection |

### Dimensions

|        |         |
|--------|---------|
| Width  | 14.6 mm |
| Height | 33 mm   |

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|       |         |
|-------|---------|
| Depth | 66.5 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 | DIN VDE 0110b, Gr. C for 250 V DC |
|                       | DIN VDE 0160 (in relevant parts)  |

## Mounting

|                   |     |
|-------------------|-----|
| Mounting position | any |
|-------------------|-----|

## Drawings

Diagram



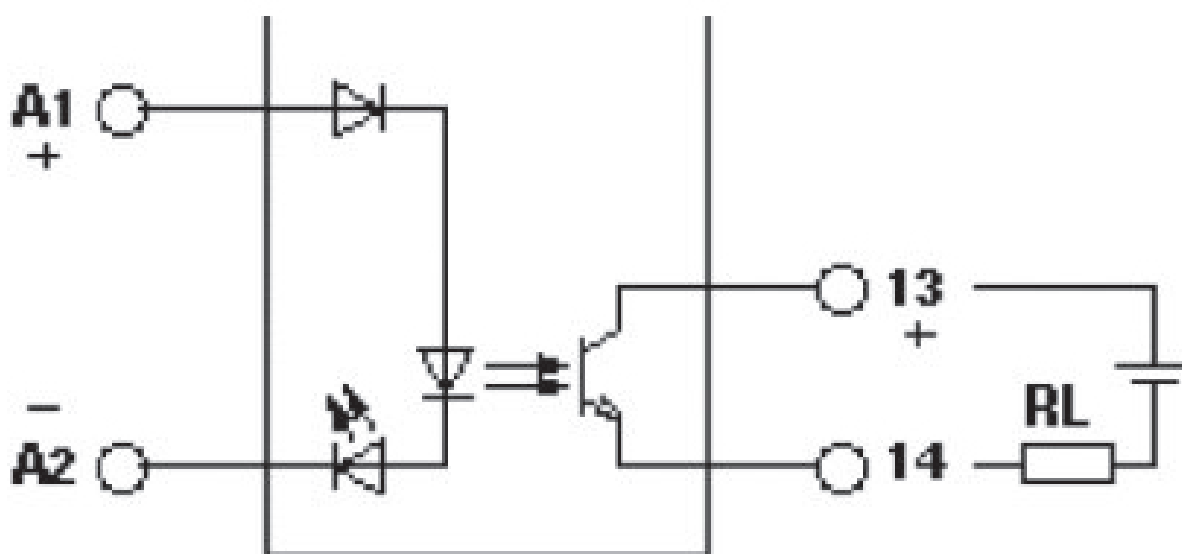
- ① In rows with zero spacing
- ② stand-alone device

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Circuit diagram



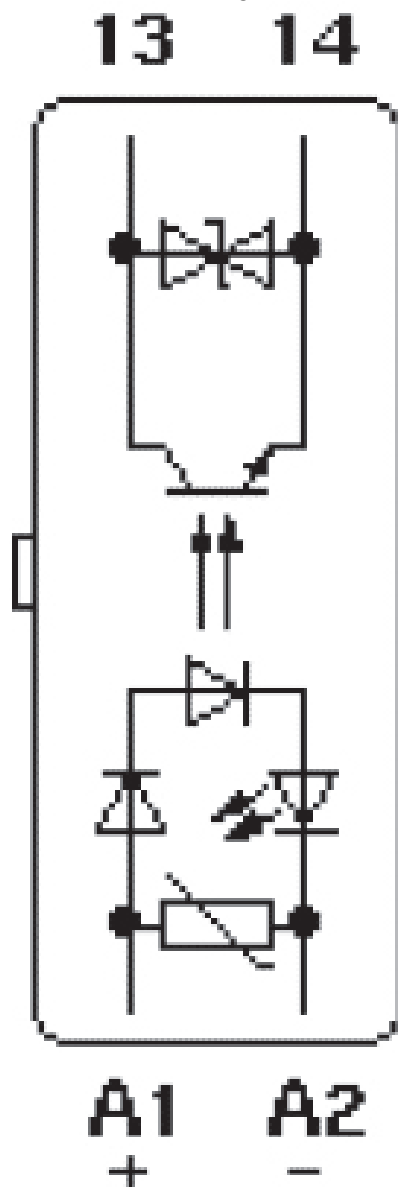
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Circuit diagram



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## Environmental product compliance

EU REACH SVHC

| REACH candidate substance (CAS No.) |  |
|-------------------------------------|--|
|-------------------------------------|--|

|  |                            |
|--|----------------------------|
|  | No substance above 0.1 wt% |
|--|----------------------------|

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