

# ST-OE2-120AC/ 48DC/100 - Solid-state relay



2911731

<https://www.phoenixcontact.com/us/products/2911731>

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Plug-in input solid-state relay, with LED and protective circuit in input and output circuits, input: 120 V AC, output: 8 - 48 V DC/max. 100 mA, can be plugged into basic terminal blocks

The figure shows version ST-OV 2-5 DC/ 48 DC/100

## Commercial data

Item number	2911731
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK61B1
GTIN	4017918079758
Weight per piece (including packing)	24.05 g
Weight per piece (excluding packing)	24.05 g
Customs tariff number	85364900
Country of origin	DE

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## Technical data

### Product properties

Product type	Single solid-state relay
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### Data management status

Date of last data management	01.04.2026
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### Electrical properties

Test voltage (Input/output)	2.5 kV AC (Input/output)
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### Input data

Nominal input voltage $U_N$	120 V AC
Input voltage range in reference to $U_N$	0.9 ... 1.1
Input voltage range	108 V AC ... 132 V AC
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 $U_N$	5 mA
Typical response time	10 ms
Typical turn-off time	10 ms
Status display	LED (yellow)
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection RC element
Transmission frequency	10 Hz

### Output data

Design of digital output	electronic
Output voltage range	8 V DC ... 48 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	0.9 V
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection

### Dimensions

Width	14.6 mm
Height	33 mm
Depth	66.5 mm

### Material specifications

Color	green (RAL 6021)
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### Environmental and real-life conditions

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## Ambient conditions

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

## Standards and regulations

Standards/regulations	DIN VDE 0110
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## Mounting

Mounting position	any
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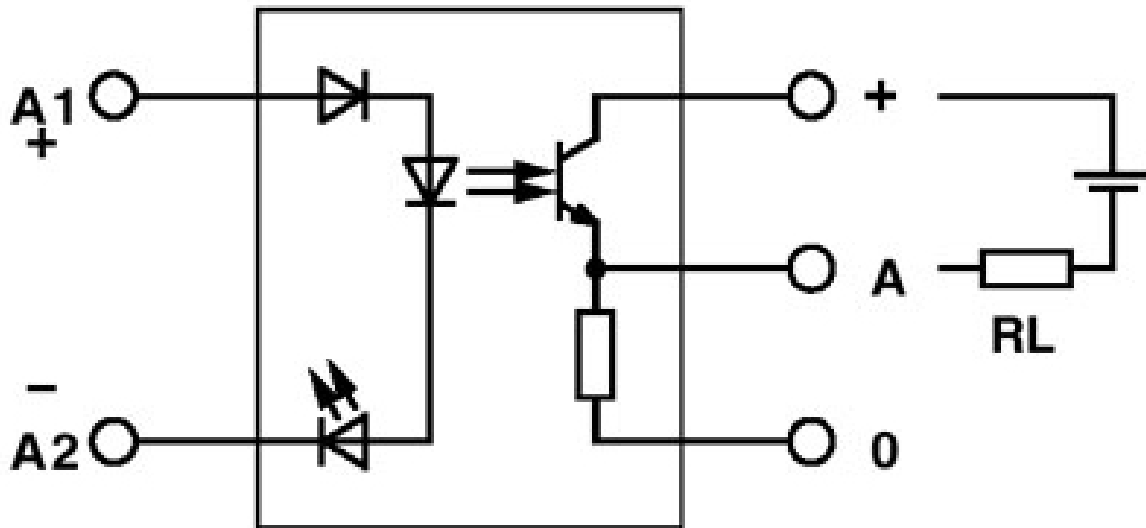


2911731

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## Drawings

Circuit diagram



Output: 2-conductor, floating, positive switching

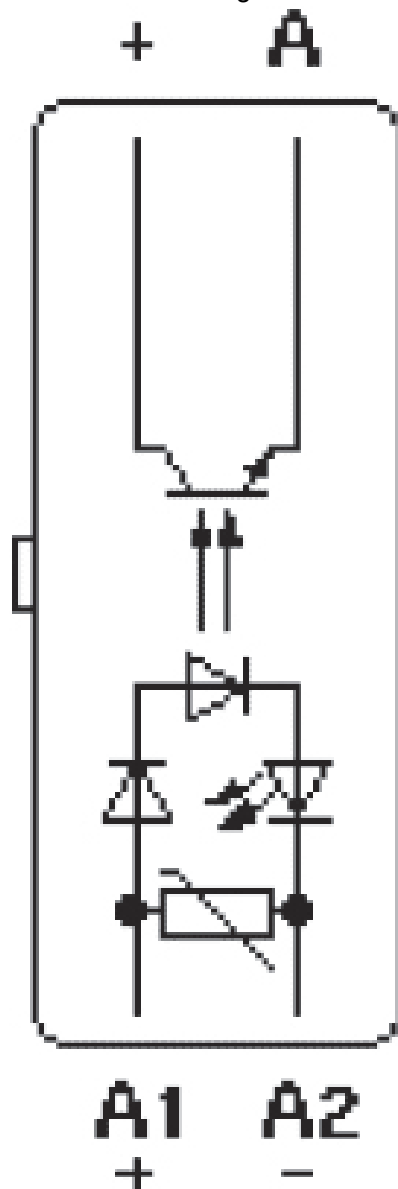
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Circuit diagram

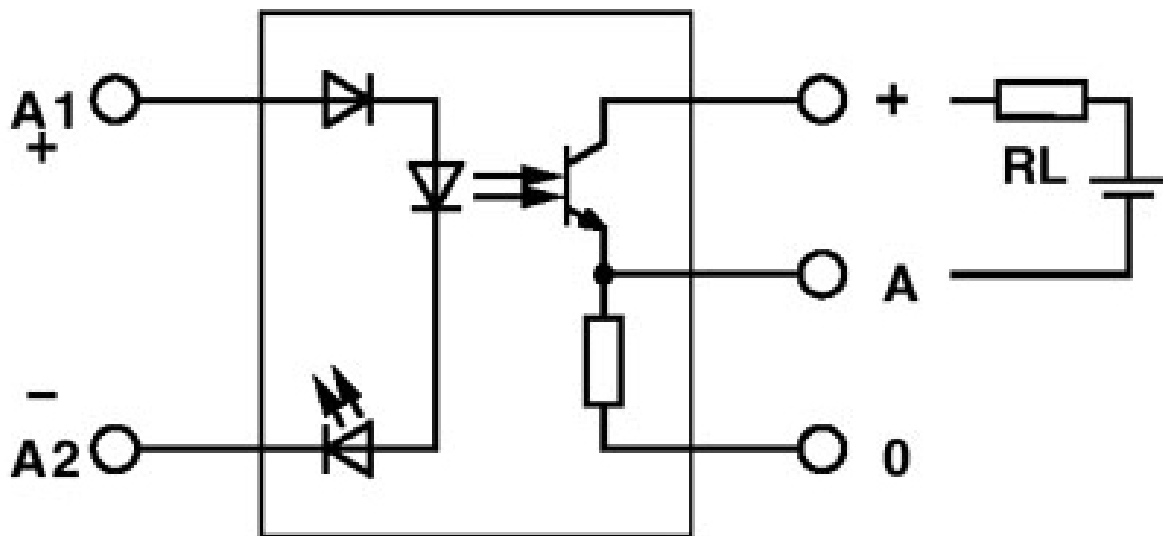


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Circuit diagram



Output: 2-conductor, floating, negative switching

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## Environmental product compliance

### 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.)	No substance above 0.1 wt%
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