

# OV-24DC/ 60DC/4 - Semi-conductor relay



2982647

<https://www.phoenixcontact.com/us/products/2982647>

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Solid-state relay, for signal amplification and isolation of the control and load circuits, can be plugged in the solderable plug-in bases SIM-AMS or with PCB connection for mounting directly onto the PCB, input: 4.25-32 V DC, output: 1-60 V DC/4 A

## Your advantages

- Compact dimensions
- No electromagnetic interference
- No wear, even at high switching frequencies
- High test voltage of up to 4 kV between control and load circuits
- Electrically insulated housing
- No contact bounce – no movable parts
- Switching power of up to 350 V DC/1 A, 60 V DC/4 A or 480 V AC/5 A

## Commercial data

Item number	2982647
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C471
Product key	CK69L1
Catalog page	Page 559 (C-7-2013)
GTIN	4046356131971
Weight per piece (including packing)	24.9 g
Weight per piece (excluding packing)	24 g
Customs tariff number	85362010
Country of origin	CN

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## Technical data

### Product properties

Product type	Single solid-state relay
Operating mode	100% operating factor

### Data management status

Date of last data management	17.05.2024
Article revision	00

### Insulation characteristics

Insulation	Basic insulation
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### Electrical properties

Test voltage (Input/output)	4 kV (50 Hz, 1 min., input/output)
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### Input data

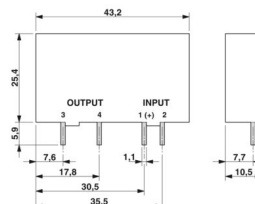
Nominal input voltage $U_N$	24 V DC
Input voltage range	4.25 V DC ... 32 V DC
Switching threshold "0" signal, voltage	< 1 V DC
Switching threshold "1" signal voltage	> 3.3 V DC
Typical input current at $U_N$	15 mA
Typical response time	< 100 $\mu$ s
Typical turn-off time	< 250 $\mu$ s
Transmission frequency	100 Hz

### Output data

Design of digital output	electronic
Output voltage range	1 V DC ... 60 V DC
Limiting continuous current	4 A (see derating curve)
Min. load current	1 mA
Leakage current	100 $\mu$ A
Surge current	25 A ( $t_p = 1$ s)
Voltage drop at max. limiting continuous current	0.5 V
Output circuit	2-conductor
Protective circuit	Reverse polarity protection; Polarity protection diode

### Dimensions

#### Dimensional drawing



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Width	10.5 mm
Height	43 mm
Depth	25.4 mm

## Material specifications

Color	black (RAL 9005)
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## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 80 °C
Ambient temperature (storage/transport)	-20 °C ... 80 °C

## Approvals

### UKCA

Certificate	UKCA-compliant
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## Standards and regulations

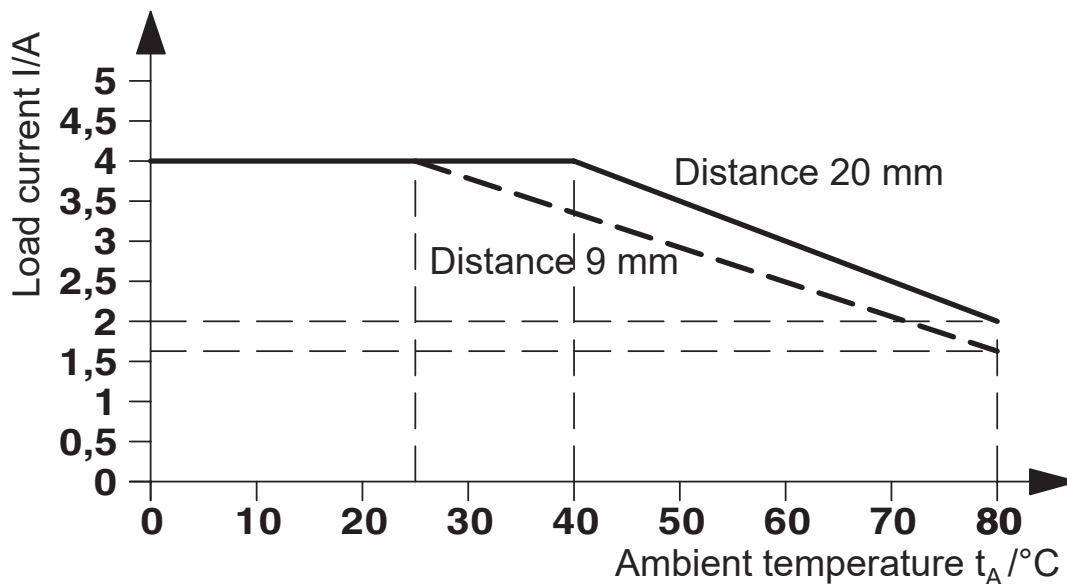
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 55011

## Mounting

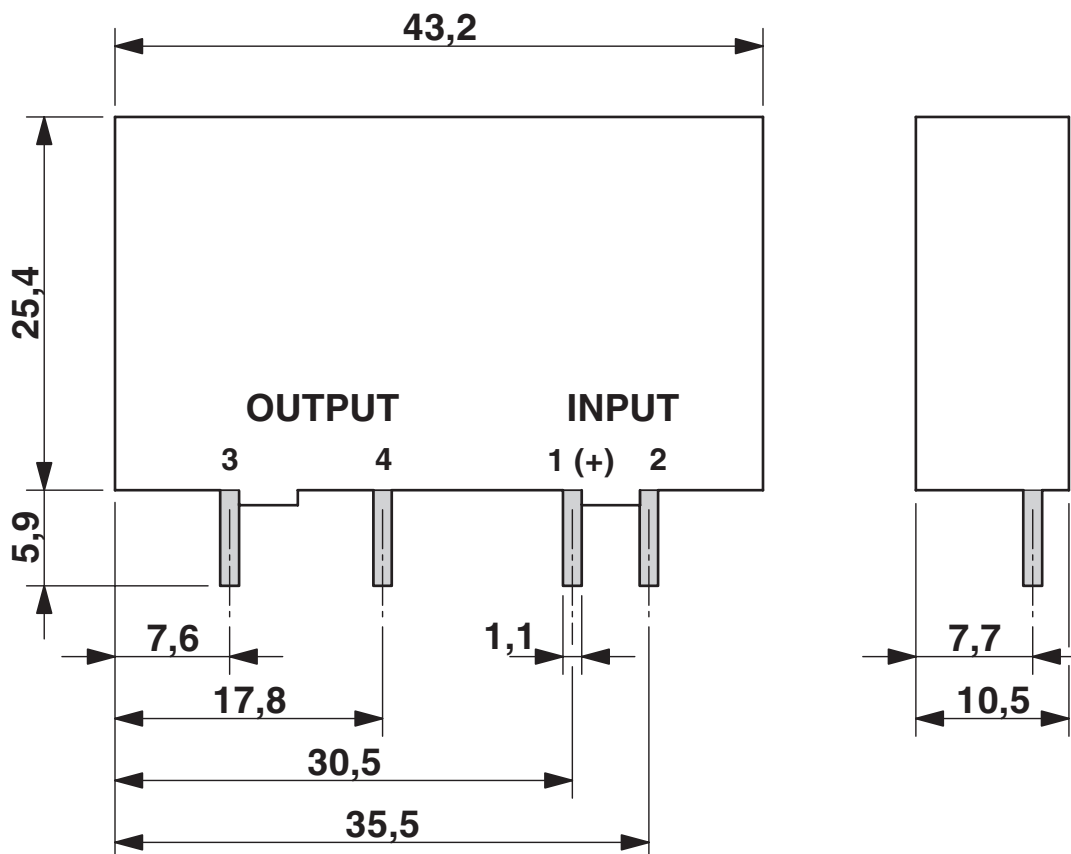
Assembly note	Can be aligned with > 20 mm spacing
Mounting position	any

## Drawings

Diagram



Dimensional drawing



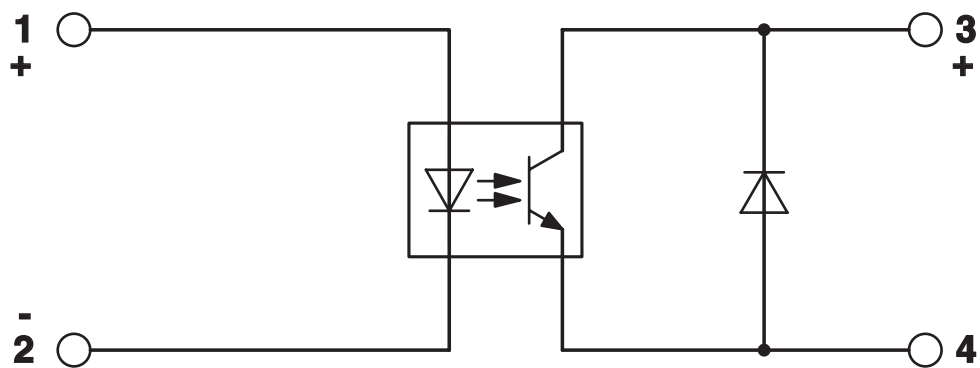
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Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2982647>



**cUL Recognized**

Approval ID: FILE E 195083



**UL Recognized**

Approval ID: FILE E 195083



**EAC**

Approval ID: TR\_TS\_D\_00573\_c



**EAC**

Approval ID: RU\*C-DE.\*08.B.00010

**cULus Recognized**

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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	EC001504
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### UNSPSC

UNSPSC 21.0	39122300
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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