

OV-24DC/480AC/5 - Semi-conductor relay



2982650

<https://www.phoenixcontact.com/us/products/2982650>

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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: 4-32 V DC, output: 12-530 V AC/ 5 A

Your advantages

- Compact dimensions
- No wear, even at high switching frequencies
- No electromagnetic interference
- 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	2982650
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C471
Product key	DK69L2
Catalog page	Page 559 (C-7-2013)
GTIN	4046356131667
Weight per piece (including packing)	25.34 g
Weight per piece (excluding packing)	24.7 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

Insulation characteristics

Insulation	Basic insulation
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Data management status

Date of last data management	19.03.2025
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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 V DC ... 32 V DC
Switching threshold "0" signal, voltage	< 1.2 V DC
Switching threshold "1" signal voltage	> 3.5 V DC
Typical input current at U_N	10 mA
Typical response time	ms (maximum $\frac{1}{2}$ periods)
Typical turn-off time	ms (maximum $\frac{1}{2}$ periods)
Transmission frequency	25 Hz

Output data

Design of digital output	electronic
Output voltage range	12 V AC ... 530 V AC (45/65 Hz)
Limiting continuous current	5 A (see derating curve)
Min. load current	20 mA
Leakage current	< 1 mA
Surge current	80 A ($t_p = 20$ ms)
Phase angle $\cos \phi$ min	0.5
Max. load value	50 A ² s
Peak offstate voltage	1000 V (Periodic peak reverse voltage)
Voltage drop at max. limiting continuous current	1.2 V
Output circuit	2-conductor

Dimensions

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Dimensional drawing	
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 ... 70 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Approvals

UKCA	
Certificate	UKCA-compliant

Standards and regulations

Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6
	EN 55011

Mounting

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

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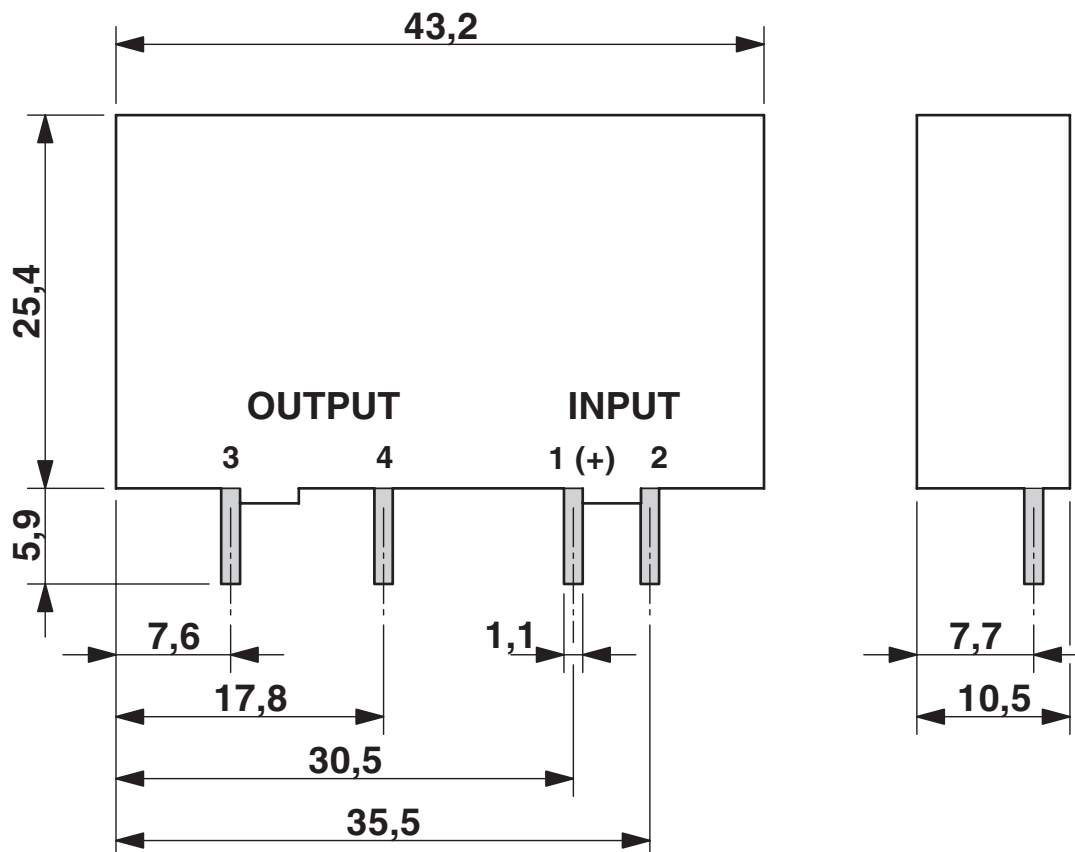
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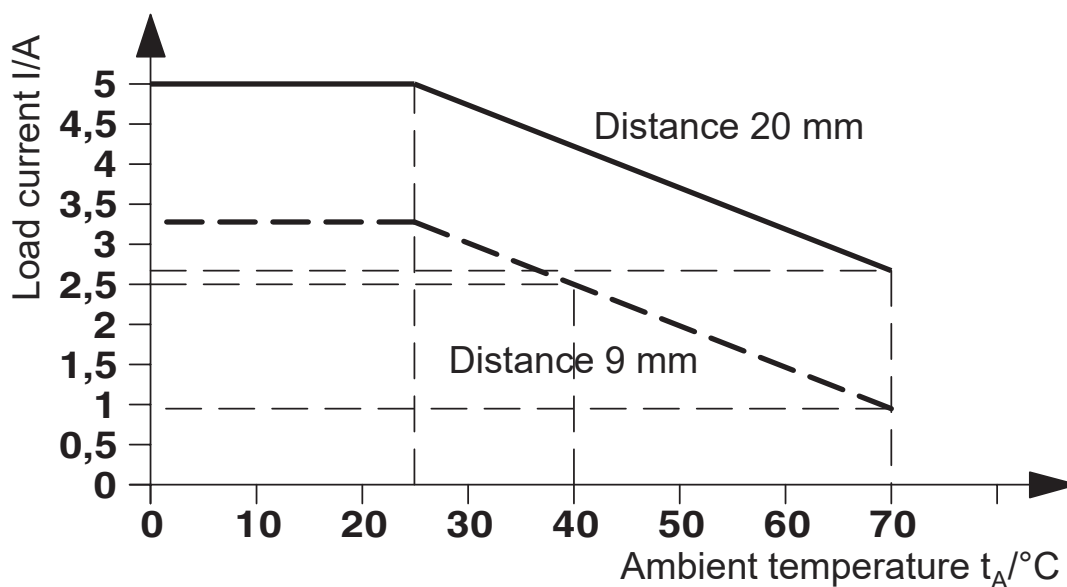


Drawings

Dimensional drawing



Diagram



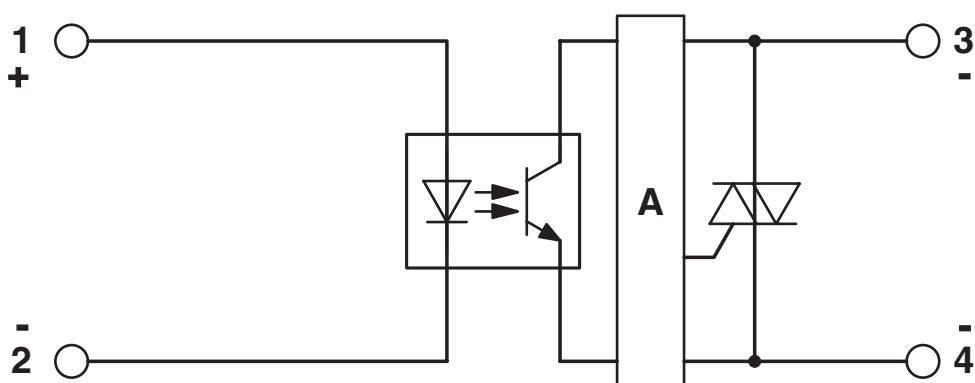
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Circuit diagram



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Approvals

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cUL Recognized

Approval ID: FILE E 195083



UL Recognized

Approval ID: FILE E 195083



EAC

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

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Classifications

ECLASS

ECLASS-13.0	27371604
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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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