

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



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
- No contact bounce – no movable parts
- Electrically insulated housing
- 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	1 pc
Minimum order quantity	10 pc
Sales Key	C05
Product Key	CK7121
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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Electrical properties

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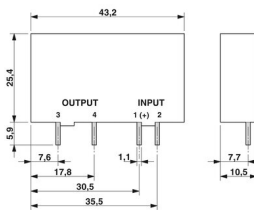
Input data

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 ½ periods)
Typical turn-off time	ms (maximum ½ 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 (tp = 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

Dimensional drawing	
Width	10.5 mm

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Height	43 mm
Depth	25.4 mm

Environmental and real-life conditions

Ambient conditions

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

Approval data

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 61000-4-5
	EN 61000-4-6
	EN 55011

Mounting

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

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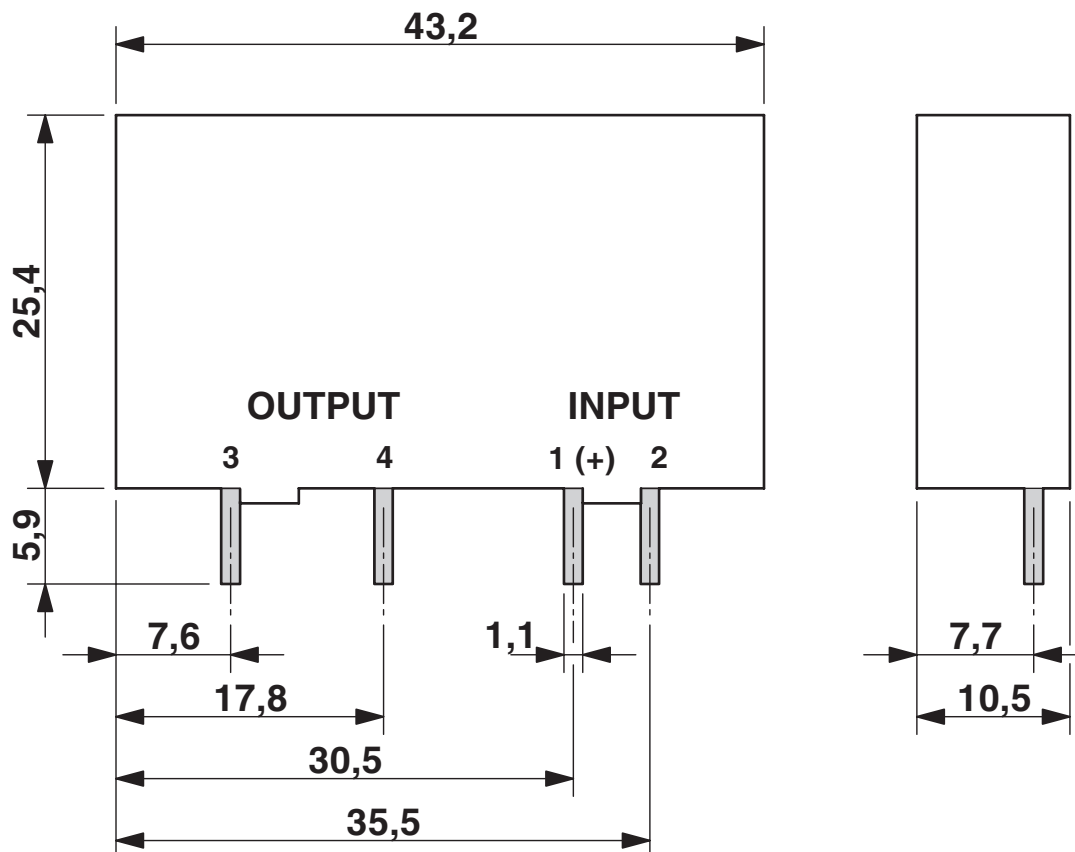
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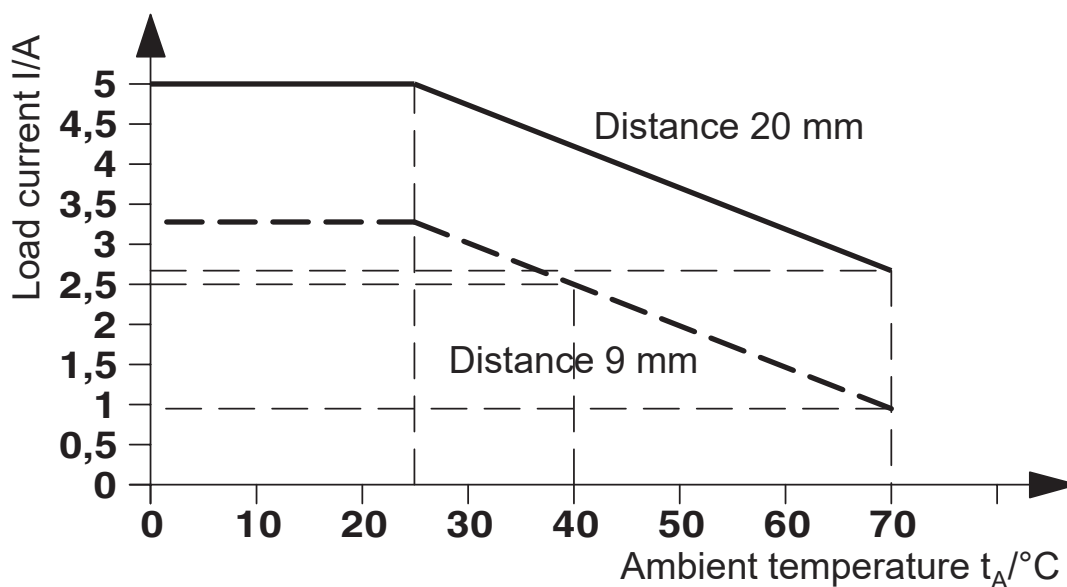


Drawings

Dimensional drawing



Diagram



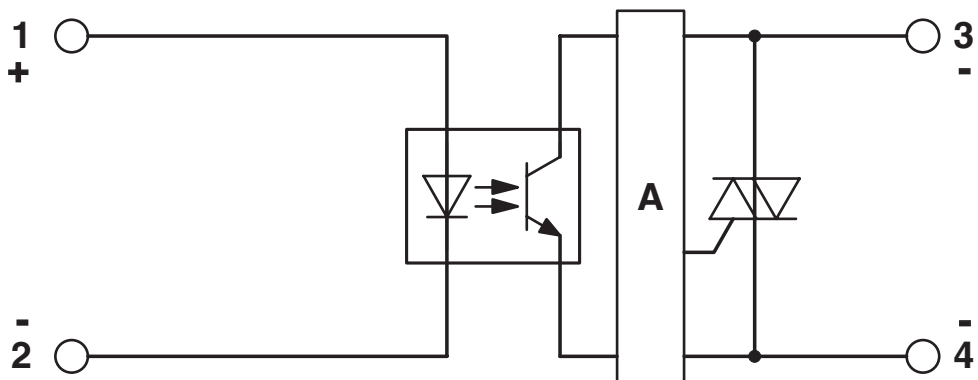
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Circuit diagram



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Approvals



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-9.0	27371604
ECLASS-10.0.1	27371604
ECLASS-11.0	27371604

ETIM

ETIM 8.0	EC001504
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UNSPSC

UNSPSC 21.0	39122300
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com