

OPT-24DC/ 48DC/100 - Miniature solid-state relay



2966618

<https://www.phoenixcontact.com/au/products/2966618>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Plug-in miniature solid-state relay, input solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 - 48 V DC/100 mA

Your advantages

- Vibration and shock resistant
- RT III-proof (wash-proof)
- Wear-free and durable
- Zero voltage switch at AC output
- Can be soldered on PCB
- Switching power of up to 24 V DC/5 A

Commercial data

Item number	2966618
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	DK69K1
Product key	DK69K1
Catalog page	Page 287 (C-5-2019)
GTIN	4017918130466
Weight per piece (including packing)	4.83 g
Weight per piece (excluding packing)	4.83 g
Customs tariff number	85364110
Country of origin	DE

OPT-24DC/ 48DC/100 - Miniature solid-state relay



2966618

<https://www.phoenixcontact.com/au/products/2966618>

Technical data

Product properties

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

Insulation characteristics: Standards/regulations

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	19.03.2025
------------------------------	------------

Electrical properties

Maximum power dissipation for nominal condition	0.17 W
Test voltage (Input/output)	2.5 kV (50 Hz, 1 min., input/output)

Input data

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Input voltage range	19.2 V DC ... 28.8 V DC
Switching threshold "0" signal in reference to U_N	0.4
Switching threshold "1" signal in reference to U_N	0.7
Typical input current at U_N	7 mA
Typical response time	20 μ s (at U_N)
Typical turn-off time	300 μ s (at U_N)
Transmission frequency	300 Hz

Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output voltage range	3 V DC ... 48 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	≤ 1 V
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection Surge protection

Dimensions

Width	5 mm
Height	28 mm
Depth	15 mm

Material specifications

OPT-24DC/ 48DC/100 - Miniature solid-state relay



2966618

<https://www.phoenixcontact.com/au/products/2966618>

Color	black (RAL 9005)
-------	------------------

Environmental and real-life conditions

Ambient conditions

Degree of protection	RT III
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C

Approvals

Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Standards and regulations

Standards/regulations

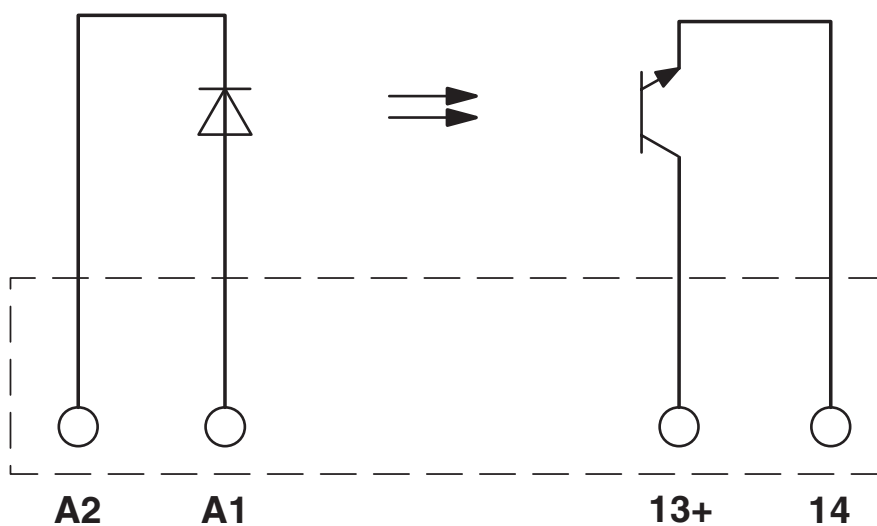
Standards/regulations	IEC 60664
	EN 50178

Mounting

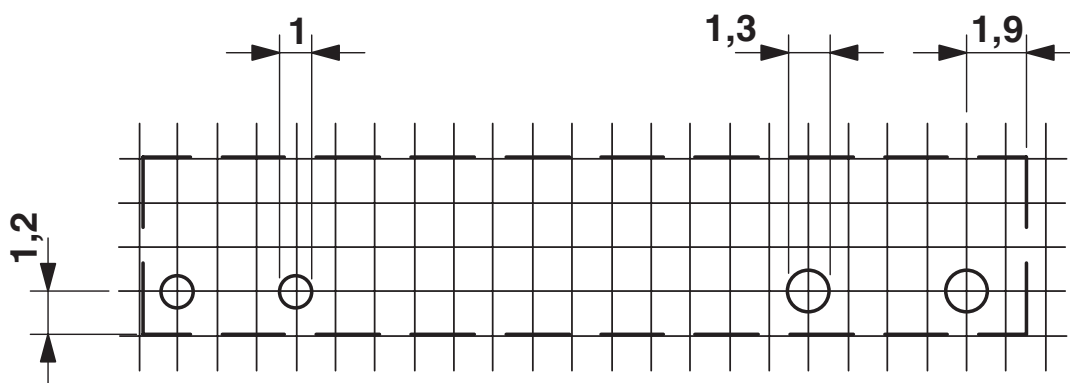
Assembly note	in rows with zero spacing
Mounting position	any

Drawings

Circuit diagram



Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm

OPT-24DC/ 48DC/100 - Miniature solid-state relay



2966618

<https://www.phoenixcontact.com/au/products/2966618>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/2966618>



cUL Recognized
Approval ID: FILE E 195083



UL Recognized
Approval ID: FILE E 195083



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



UL Recognized
Approval ID: FILE E 195083



cUL Recognized
Approval ID: FILE E 195083



GL
Approval ID: 46016-03 HH

OPT-24DC/ 48DC/100 - Miniature solid-state relay



2966618

<https://www.phoenixcontact.com/au/products/2966618>

Classifications

ECLASS

ECLASS-13.0	27371604
-------------	----------

ETIM

ETIM 9.0	EC001504
----------	----------

UNSPSC

UNSPSC 21.0	39122300
-------------	----------

OPT-24DC/ 48DC/100 - Miniature solid-state relay



2966618

<https://www.phoenixcontact.com/au/products/2966618>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT PTY Ltd

Unit 7, 2-8 South Street

Rydalmere NSW 2116

1300 786 411

customerservice@phoenixcontact.com.au