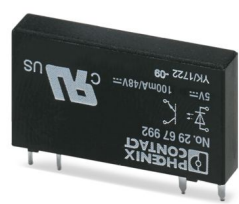


2967992

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Plug-in miniature solid-state relay, input solid-state relay, 1 N/O contact, input voltage: 5 V DC



Your advantages

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

Commercial data

Item number	2967992
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	DK69K1
Catalog page	Page 396 (C-5-2019)
GTIN	4017918820749
Weight per piece (including packing)	4.9 g
Weight per piece (excluding packing)	4.9 g
Customs tariff number	85364190
Country of origin	HU

# OPT- 5DC/ 48DC/100 - Miniature solid-state relay



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## 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
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### Electrical properties

Maximum power dissipation for nominal condition	0.02 W
Test voltage (Input/output)	2.5 kV (50 Hz, 1 min., input/output)

### Input data

Nominal input voltage $U_N$	5 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.2
Input voltage range	4 V DC ... 6 V DC
Switching threshold "0" signal in reference to $U_N$	0.15
Switching threshold "1" signal in reference to $U_N$	0.5
Typical input current at $U_N$	4 mA
Typical response time	20 $\mu$ s (at $U_N$ )
Typical turn-off time	300 $\mu$ 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	$\leq 1$ 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- 5DC/ 48DC/100 - Miniature solid-state relay



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Color	black (RAL 9005)
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## 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

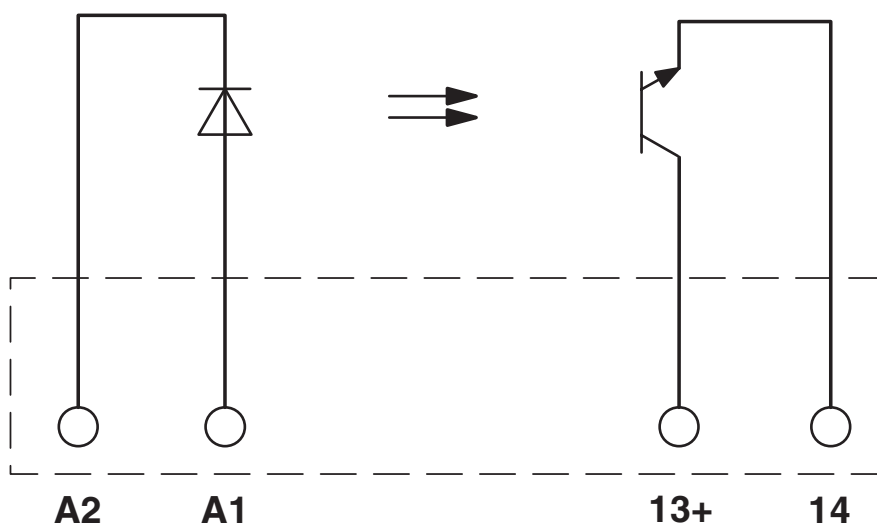
Standards/regulations	IEC 60664
	EN 50178

## Mounting

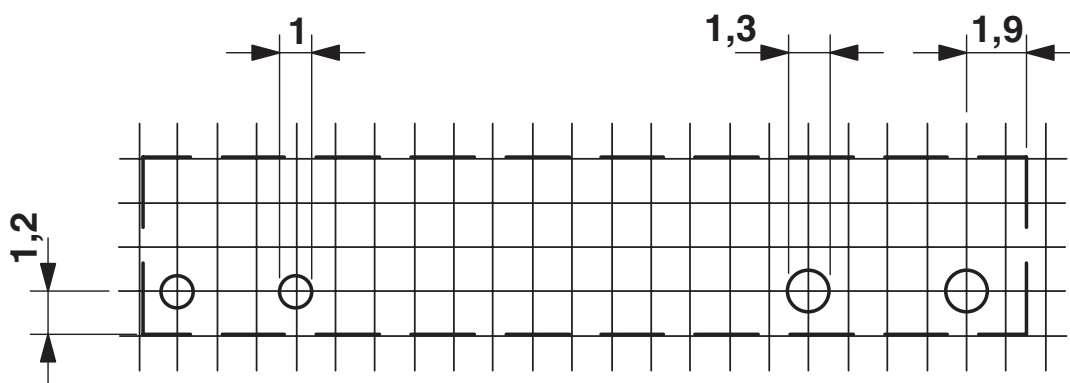
Assembly note	in rows with zero spacing
Mounting position	any

## Drawings

Circuit diagram



Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm

# OPT- 5DC/ 48DC/100 - Miniature solid-state relay



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2967992>



**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- 5DC/ 48DC/100 - Miniature solid-state relay



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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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# OPT- 5DC/ 48DC/100 - Miniature solid-state relay



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## Environmental product compliance

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

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