

# OPT- 5DC/ 24DC/ 2 - Miniature solid-state relay

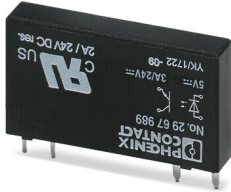


2967989

<https://www.phoenixcontact.com/in/products/2967989>

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Plug-in miniature solid-state relay, power 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
- Can be soldered on PCB
- Switching capacity of up to 24 V DC/3 A

## Commercial Data

Item number	2967989
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Product Key	CK61F2
Catalog Page	Page 396 (C-5-2019)
GTIN	4017918820763
Weight per Piece (including packing)	5.24 g
Weight per Piece (excluding packing)	3.5 g
Customs tariff number	85364190
Country of origin	HU

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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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### Insulation characteristics: Standards/regulations

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

### Electrical properties

Maximum power dissipation for nominal condition	0.05 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, voltage	$\leq 0.8$ V
Switching threshold "1" signal voltage	$\geq 2.5$ V
Typical input current at $U_N$	9 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 type	1 N/O contact
Design of digital output	electronic
Output voltage range	3 V DC ... 33 V DC
Limiting continuous current	3 A (see derating curve)
Maximum inrush current	15 A (10 ms)
Voltage drop at max. limiting continuous current	$\leq 150$ mV
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection Surge protection

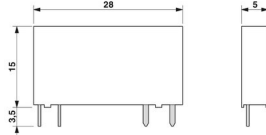
### Dimensions

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Dimensional drawing	
Width	5 mm
Height	28 mm
Depth	15 mm

## 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 instructions	in rows with zero spacing
Mounting position	any

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