

## Miniature solid-state relay - OPT- 5DC/ 48DC/100 - 2967992

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



The illustration shows the version OPT-24DC/48DC/100

### Product Features

- 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



### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
Weight per Piece (excluding packing)	4.92 g
Custom tariff number	85364190
Country of origin	Hungary

### Technical data

#### Dimensions

Width	5 mm
Height	28 mm
Depth	15 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C

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## Technical data

### Input data

Nominal input voltage $U_N$	5 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.2
Switching threshold "0" signal, voltage	$\leq 0.8$ V
Switching threshold "1" signal voltage	$\geq 2.5$ V
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

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-wire, floating
Type of protection	Reverse polarity protection
	Surge protection

### General

Test voltage input/output	2.5 kV (50 Hz, 1 min.)
Mounting position	any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Degree of protection	RT III (wash-proof)
Designation	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage/insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III

### Standards and Regulations

Connection in acc. with standard	CUL
Designation	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage/insulation	Basic insulation
Degree of pollution	2

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## Technical data

### Standards and Regulations

Overvoltage category	III
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## Classifications

### eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371604
eCl@ss 7.0	27371604
eCl@ss 8.0	27371604

### ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC001504
ETIM 5.0	EC001504

### UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121542
UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39121542

## Approvals

### Approvals

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#### Approvals

UL Recognized / cUL Recognized / GL / EAC / UL Recognized / cUL Recognized / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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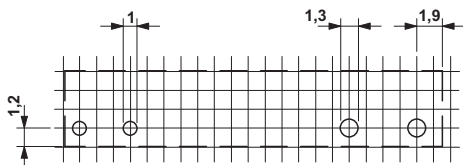
## Approvals

### Approval details

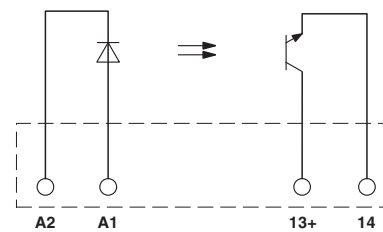
- UL Recognized
- cUL Recognized
- GL
- EAC
- UL Recognized
- cUL Recognized
- cULus Recognized

## Drawings

Drilling diagram



Circuit diagram



a = pitch division 1.25 mm and 1.27 mm