Miniature solid-state relay - OPT- 5DC/ 24DC/ 2 - 2967989

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

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

Why buy this product

- 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

RoHS

Key Commercial Data

Packing unit	1 STK
Minimum order quantity	10 STK
Weight per Piece (excluding packing)	5.240 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
Input voltage range	4 V DC ... 6 V DC
Switching threshold "0" signal, voltage	≤ 0.8 V
Switching threshold "1" signal voltage	≥ 2.5 V
Typical input current at U_N	9 mA
Typical response time	20 µs (at U_N)
Typical turn-off time	300 µs (at U_N)
Transmission frequency	300 Hz

Output data

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	≤ 150 mV
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

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Technical data

Standards and Regulations

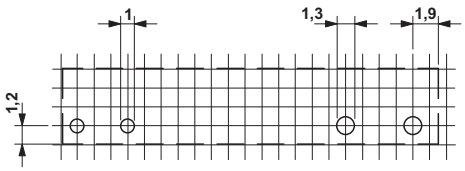
Rated surge voltage/insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III

Environmental Product Compliance

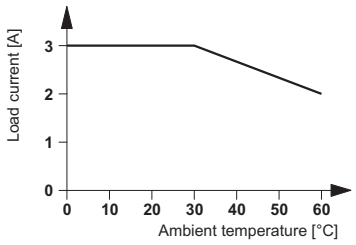
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

Drilling diagram

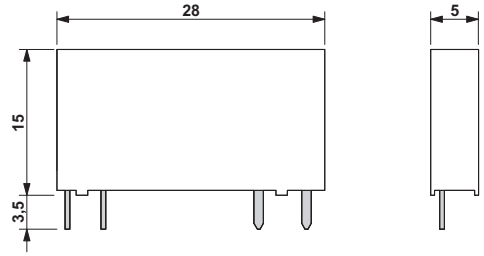


Diagram

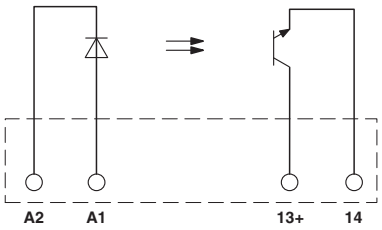


a = pitch division 1.25 mm and 1.27 mm

Dimensional drawing



Circuit diagram



Approvals

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Approvals

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

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Approvals

Ex Approvals

Approval details

UL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 195083

cUL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 195083

GL http://www.gl-group.com/newbuilding/approvals/index.html 46016-03 HH

EAC EAC-Zulassung

UL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 195083

cUL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 195083

PRS http://www.prs.pl/ TE/2109/880590/16

cULus Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

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