

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

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Plug-in miniature solid-state relay, power solid-state relay, input voltage 5 V DC




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

Why buy this product

- Vibration and shock resistant
- RT III wash tight (comparable with IP67)
- Wear-free and durable
- Can be soldered on PCB
- Zero voltage switch at AC output
- Switching power of up to 24 V DC/5 A



Key commercial data

Packing unit	10 pc
Minimum order quantity	10 pc
GTIN	 4 017918 820763
Weight per Piece (excluding packing)	5.44 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	≤ 0.8 V
Switching threshold "1" signal voltage	≥ 2.5 V
Typical input current at U_N	9 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

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	Protection against polarity reversal
	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
Name	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage / insulation	Basic insulation
Pollution degree	2
Surge voltage category	III

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

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Classifications

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

Approvals

UL Recognized / cUL Recognized / GOST / GL / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized

cUL Recognized

GOST

GL

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Approvals

UL Recognized

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Accessories

Additional products

Relay socket - PLC-BPT- 5DC/21 - 2900443



6.2 mm PLC basic terminal blocks with Push-in connection, 5 V DC input voltage (without relay or optocoupler)

Relay socket - PLC-BSP- 5DC/21 - 2980238



6.2 mm PLC basic terminal blocks with spring-cage connection, 5 V DC input voltage (without relay or optocoupler)

Relay socket - PLC-BSC- 5DC/21 - 2980225



6.2 mm PLC basic terminal blocks with screw connection, 5 V DC input voltage (without relay or optocoupler)

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Accessories

Relay socket - PLC-BSC- 5DC/ 1/SEN - 2980267



6.2 mm PLC sensor basic terminal block with sensor supply voltage distribution (BB), screw connection, 5 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.

Relay socket - PLC-BPT- 5DC/ 1/ACT - 2900448



6.2 mm PLC actuator basic terminal block with load return line connection (BB), Push-in connection, 5 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.

Relay socket - PLC-BSP- 5DC/ 1/ACT - 2980254



6.2 mm PLC actuator basic terminal block with load return line connection (BB), spring-cage connection, 5 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.

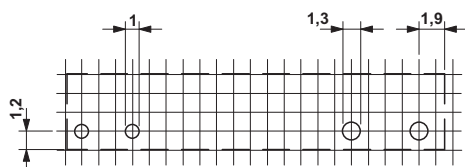
Relay socket - PLC-BSC- 5DC/ 1/ACT - 2980241



6.2 mm PLC actuator basic terminal block with load return line connection (BB), screw connection, 5 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.

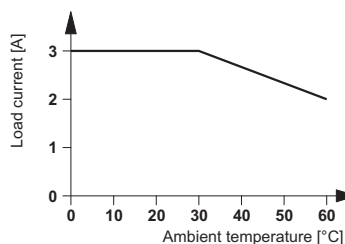
Drawings

Drilling diagram



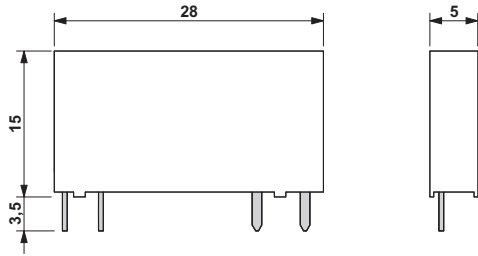
a = pitch division 1.25 mm and 1.27 mm

Diagram



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Dimensioned drawing



Circuit diagram

