

Miniature solid-state relay - OPT-60DC/ 48DC/100 - 2966621

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Plug-in miniature solid-state relay, input solid-state relay, 1 N/O contact, input: 60 V DC, output: 3 - 48 V DC/100 mA

Your advantages

- Vibration and shock resistant
- RT III-proof (wash-proof)
- 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	1 pc
Minimum order quantity	10 pc
GTIN	 4 017918 130473
GTIN	4017918130473
Weight per Piece (excluding packing)	5.180 g
Custom tariff number	85364110
Country of origin	Hungary

Technical data

Dimensions

Width	5 mm
Height	28 mm
Depth	15 mm

Miniature solid-state relay - OPT-60DC/ 48DC/100 - 2966621

Technical data

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Degree of protection	RT III

Input data

Nominal input voltage U_N	60 V DC
Input voltage range in reference to U_N	0.9 ... 1.1
Input voltage range	54 V DC ... 66 V DC
Switching threshold "0" signal, voltage	≤ 40 V
Switching threshold "1" signal voltage	≥ 52 V
Typical input current at U_N	3 mA
Typical response time	50 μ s (at U_N)
Typical turn-off time	800 μ s (at U_N)
Transmission frequency	100 Hz
Power dissipation for nominal condition	0.18 W

Output data

Output voltage range	3 V DC ... 48 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	≤ 1 V
Output circuit	2-conductor, floating
Type of protection	Reverse polarity protection
	Surge protection
Protective circuit/component	Polarity protection diode

General

Test voltage	2.5 kV (50 Hz, 1 min., input/output)
Mounting position	any
Assembly instructions	in rows with zero spacing
Operating mode	100% operating factor

Standards and Regulations

Connection in acc. with standard	CUL
Designation	Standards/regulations
Standards/regulations	IEC 60664
	EN 50178
Insulation	Basic insulation
Pollution degree	2
Overvoltage category	III

Miniature solid-state relay - OPT-60DC/ 48DC/100 - 2966621

Technical data

Conformance/approvals

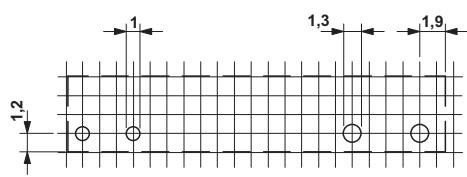
Designation	Corrosive gas test
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Environmental Product Compliance

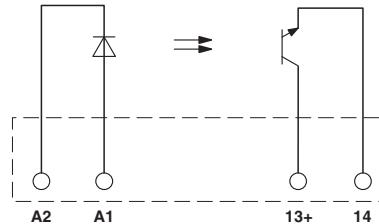
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Drilling diagram



Circuit diagram



a = pitch division 1.25 mm and 1.27 mm

Classifications

eCl@ss

eCl@ss 10.0.1	27371604
eCl@ss 11.0	27371604
eCl@ss 4.0	27371100
eCl@ss 4.1	27371100
eCl@ss 5.0	27371000
eCl@ss 5.1	27371000
eCl@ss 6.0	27371600
eCl@ss 7.0	27371604
eCl@ss 9.0	27371604

ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC001504
ETIM 6.0	EC001504

Miniature solid-state relay - OPT-60DC/ 48DC/100 - 2966621

Classifications

ETIM

ETIM 7.0	EC001504
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UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121542
UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39122326
UNSPSC 18.0	39122326
UNSPSC 19.0	39122326
UNSPSC 20.0	39122326
UNSPSC 21.0	39122326

Approvals

Approvals

Approvals

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

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 195083
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 195083
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PRS		http://www.prs.pl/	TE/2109/880590/16
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Miniature solid-state relay - OPT-60DC/ 48DC/100 - 2966621

Approvals

GL



<https://approvalfinder.dnvgi.com/>

46016-03 HH

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

EAC



TR_TS_D_00573_c

EAC



RU*C-
DE.*08.B.00010

Accessories

Additional products

Relay base - PLC-BPT- 60DC/21 - 2900279



6.2 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 60 V DC

Relay base - PLC-BSP- 60DC/21 - 2967332



6.2 mm PLC basic terminal block with spring-cage connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 60 V DC

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Accessories

Relay base - PLC-BSC- 60DC/21 - 2966100



6.2 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 60 V DC

Relay base - PLC-BPT-120UC/21 - 2900280



6.2 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 120 V AC/DC

Relay base - PLC-BSP-120UC/21 - 2967167



6.2 mm PLC basic terminal block with spring-cage connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 120 V AC/DC

Relay base - PLC-BSC-120UC/21 - 2966032



6.2 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 120 V AC/DC

Relay base - PLC-BPT-230UC/21 - 2900281



6.2 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 230 V AC/DC

Miniature solid-state relay - OPT-60DC/ 48DC/100 - 2966621

Accessories

Relay base - PLC-BSP-230UC/21 - 2967183



6.2 mm PLC basic terminal block with spring-cage connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 230 V AC/DC

Relay base - PLC-BSC-230UC/21 - 2966045



6.2 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 230 V AC/DC

Relay base - PLC-BPT-120UC/ 1/SEN - 2900451



6.2 mm PLC basic terminal block for input functions with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 120 V AC/DC

Relay base - PLC-BSP-120UC/ 1/SEN - 2967154



6.2 mm PLC basic terminal block for input functions with spring-cage connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 120 V AC/DC

Relay base - PLC-BSC-120UC/ 1/SEN - 2966074



6.2 mm PLC basic terminal block for input functions with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 120 V AC/DC

Miniature solid-state relay - OPT-60DC/ 48DC/100 - 2966621

Accessories

Relay base - PLC-BPT-230UC/ 1/SEN - 2900452



6.2 mm PLC basic terminal block for input functions with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 230 V AC/DC

Relay base - PLC-BSP-230UC/ 1/SEN - 2967170



6.2 mm PLC basic terminal block for input functions with spring-cage connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 230 V AC/DC

Relay base - PLC-BSC-230UC/ 1/SEN - 2966087



6.2 mm PLC basic terminal block for input functions with screw connection, without relay or solid-state relay, for mounting on NS 35/7,5 DIN rail, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage: 230 V AC/DC

Relay base - PLC-BPT-120UC/21/SO46 - 2900453



6.2 mm PLC basic terminal block against interference currents/voltages on the control side with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 120 V AC

Relay base - PLC-BSP-120UC/21/SO46 - 2980351



6.2 mm PLC basic terminal block with protection against interference currents/voltages on the control side, with spring-cage connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 120 V AC

Miniature solid-state relay - OPT-60DC/ 48DC/100 - 2966621

Accessories

Relay base - PLC-BSC-120UC/21/SO46 - 2980319



6.2 mm PLC basic terminal block with protection against interference currents/voltages on the control side, with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 120 V AC

Relay base - PLC-BPT-230UC/21/SO46 - 2900455



6.2 mm PLC basic terminal block against interference currents/voltages on the control side with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 230 V AC

Relay base - PLC-BSP-230UC/21/SO46 - 2980377



6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with spring-cage connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 230 V AC

Relay base - PLC-BSC-230UC/21/SO46 - 2980335



6.2 mm PLC basic terminal block with protection against interference currents/voltages on the control side, with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 230 V AC

Relay base - PLC-BPT-120UC/ 1/SEN/SO46 - 2900456



6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with push-in connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 120 V AC

Miniature solid-state relay - OPT-60DC/ 48DC/100 - 2966621

Accessories

Relay base - PLC-BSP-120UC/ 1/SEN/SO46 - 2980364



6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with spring-cage connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 120 V AC

Relay base - PLC-BSC-120UC/ 1/SEN/SO46 - 2980322



6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with screw connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 120 V AC

Relay base - PLC-BPT-230UC/ 1/SEN/SO46 - 2900457



6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with push-in connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 230 V AC

Relay base - PLC-BSP-230UC/ 1/SEN/SO46 - 2980380



6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with spring-cage connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 230 V AC

Relay base - PLC-BSC-230UC/ 1/SEN/SO46 - 2980348



6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with screw connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 230 V AC

