

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

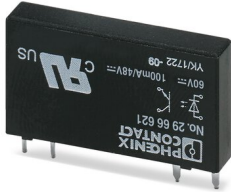


2966621

<https://www.phoenixcontact.com/de/produkte/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

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



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Commercial Data

Item number	2966621
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to Order (non-returnable)
Sales Key	G1 - Relais
Product Key	CK61F2
Catalog Page	Page 396 (C-5-2019)
GTIN	4017918130473
Weight per Piece (including packing)	5,22 g
Weight per Piece (excluding packing)	5,22 g
Customs tariff number	85364110
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

Overvoltage category	III
Pollution degree	2
Insulation	Basic insulation

Electrical properties

Maximum power dissipation for nominal condition	0.18 W
Test voltage Input/output	2.5 kV (50 Hz, 1 min., input/output)

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

Output data

Contact type	1 N/O contact
Design of digital output	electronic
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
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection

Dimensions

Width	5 mm
Height	28 mm
Depth	15 mm

Environmental and real-life conditions

Ambient conditions

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

Approval data

Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Standards and regulations

Standards/regulations

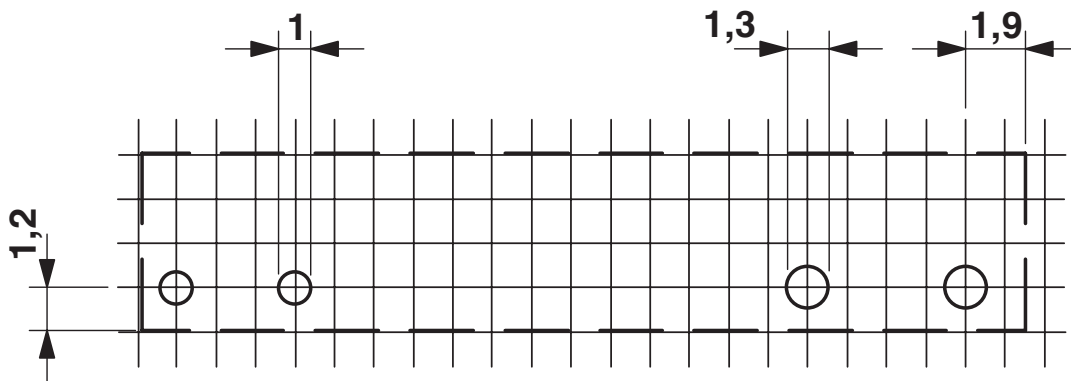
Standards/regulations	IEC 60664
	EN 50178

Mounting

Assembly instructions	in rows with zero spacing
Mounting position	any

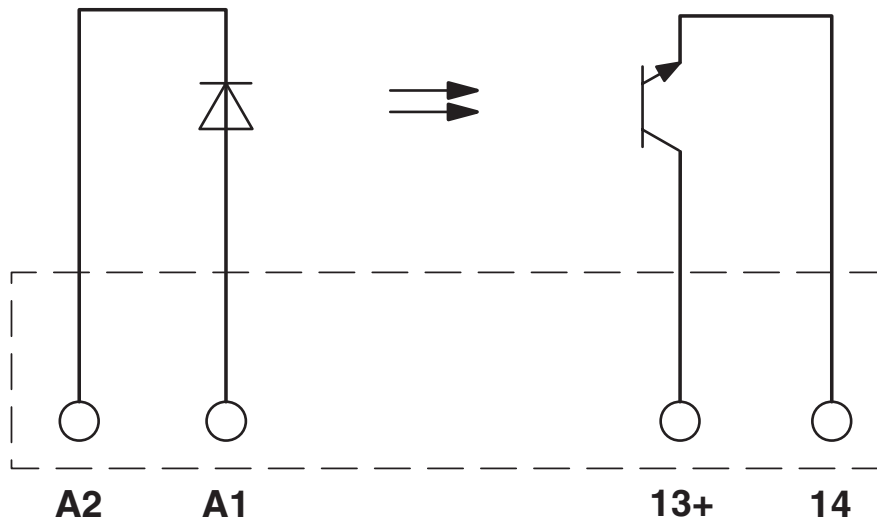
Drawings

Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm

Circuit diagram



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Approvals



cUL Recognized
Approval ID: FILE E 195083



UL Recognized
Approval ID: FILE E 195083



EAC
Approval ID: TR_TS_D_00573_c



UL Recognized
Approval ID: FILE E 195083



EAC
Approval ID: RU*C-DE.*08.B.00010



PRS
Approval ID: TE/2109/880590/16



cUL Recognized
Approval ID: FILE E 195083



GL
Approval ID: 46016-03 HH

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
			-	-

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Classifications

ECLASS

ECLASS-9.0	27371604
ECLASS-10.0.1	27371604
ECLASS-11.0	27371604

ETIM

ETIM 8.0	EC001504
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UNSPSC

UNSPSC 21.0	39122300
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Environmental Product Compliance

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

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Accessories

Relay base

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

<https://www.phoenixcontact.com/de/produkte/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

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

<https://www.phoenixcontact.com/de/produkte/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

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Relay base

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

<https://www.phoenixcontact.com/de/produkte/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

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

<https://www.phoenixcontact.com/de/produkte/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

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

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Relay base

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

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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

Relay base

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

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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

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

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Relay base

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

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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

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

<https://www.phoenixcontact.com/de/produkte/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

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Relay base

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

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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

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

<https://www.phoenixcontact.com/de/produkte/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

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

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Relay base

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

<https://www.phoenixcontact.com/de/produkte/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

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

<https://www.phoenixcontact.com/de/produkte/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

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

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Relay base

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

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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

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

<https://www.phoenixcontact.com/de/produkte/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

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

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Relay base

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

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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

Relay base

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

<https://www.phoenixcontact.com/de/produkte/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

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



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Relay base

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

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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

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

<https://www.phoenixcontact.com/de/produkte/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

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