

# OPT-24DC/ 48DC/100 - Miniature solid-state relay



2966618

<https://www.phoenixcontact.com/in/products/2966618>

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Plug-in miniature solid-state relay, input solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 - 48 V DC/100 mA

## Your advantages

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

## Commercial Data

Item number	2966618
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Product Key	CK61F2
Catalog Page	Page 287 (C-5-2019)
GTIN	4017918130466
Weight per Piece (including packing)	4.83 g
Weight per Piece (excluding packing)	4.83 g
Customs tariff number	85364110
Country of origin	HU

## Technical Data

### Product properties

Product type	Single solid-state relay
Set comprises	2905294 RIF-0-OPT-24DC/48DC/100 2905658 RIF-0-OSC-24DC/48DC/100
Operating mode	100% operating factor

### Insulation characteristics

Insulation	Basic insulation
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### Insulation characteristics: Standards/regulations

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

### Electrical properties

Maximum power dissipation for nominal condition	0.17 W
Test voltage (Input/output)	2.5 kV (50 Hz, 1 min., input/output)

### Input data

Nominal input voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.2
Input voltage range	19.2 V DC ... 28.8 V DC
Switching threshold "0" signal, voltage	$\leq 10$ V
Switching threshold "1" signal voltage	$\geq 16$ V
Typical input current at $U_N$	7 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

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	$\leq 1$ V
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection Surge protection

### Dimensions

Width	5 mm
Height	28 mm
Depth	15 mm

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## Environmental and real-life conditions

### Ambient conditions

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

## Approvals

### 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

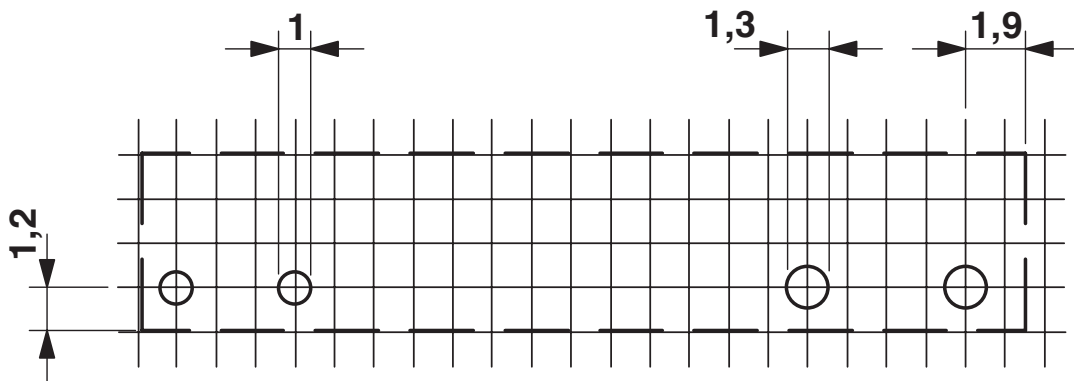
Assembly instructions	in rows with zero spacing
Mounting position	any

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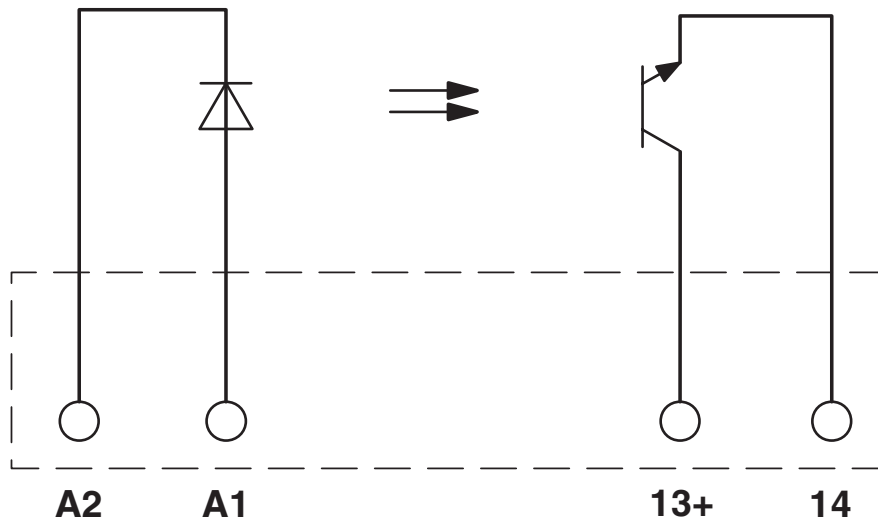
## Drawings

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

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## Classifications

### ECLASS

ECLASS-11.0	27371604
ECLASS-12.0	27371604
ECLASS-12.0	27371604
ECLASS-12.0	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

### PLC-BPT- 24DC/21 - Relay base

2900445

<https://www.phoenixcontact.com/in/products/2900445>



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 24 V DC

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### PLC-BSC- 24DC/21 - Relay base

2966016

<https://www.phoenixcontact.com/in/products/2966016>



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 24 V DC



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## PLC-BPIT- 48DC/21 - Relay base

2900447

<https://www.phoenixcontact.com/in/products/2900447>



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 48 V DC

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## PLC-BSC- 48DC/21 - Relay base

2966090

<https://www.phoenixcontact.com/in/products/2966090>



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 48 V DC

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## PLC-BPT- 24DC/ 1/SEN - Relay base

2900262

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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 24 V DC

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## PLC-BSC- 24DC/ 1/SEN - Relay base

2966061

<https://www.phoenixcontact.com/in/products/2966061>



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 24 V DC

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## PLC-BPT- 24DC/ 1/ACT - Relay base

2900449

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6.2 mm PLC basic terminal block for output functions with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 24 V DC

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## PLC-BSC- 24DC/ 1/ACT - Relay base

2966058

<https://www.phoenixcontact.com/in/products/2966058>



6.2 mm PLC basic terminal block for output functions with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 24 V DC

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## PLC-BPT- 24UC/ 1/ACT - Relay base

2900450

<https://www.phoenixcontact.com/in/products/2900450>



6.2 mm PLC basic terminal block for output functions with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 24 V AC/DC

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## PLC-BSC- 24UC/ 1/ACT - Relay base

2982799

<https://www.phoenixcontact.com/in/products/2982799>



6.2 mm PLC basic terminal block for output functions with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 24 V AC/DC

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## PLC-BSC- 24DC/21/SO46 - Relay base

2980458

<https://www.phoenixcontact.com/in/products/2980458>



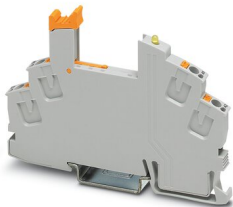
6.2 mm PLC basic terminal block with protection against interference currents/voltages on the control side, with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with increased input current consumption, 1 changeover contact, input voltage 24 V DC

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## RIF-0-BPT/1 - Relay base

2901873

<https://www.phoenixcontact.com/in/products/2901873>



RIF-0... relay base, for miniature power relay with 1 N/O contact or solid-state relays of the same design, push-in connection, for mounting on NS 35/7,5

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## RIF-0-BSC/ 1 - Relay base

2901872

<https://www.phoenixcontact.com/in/products/2901872>



RIF-0... relay base, for miniature power relay with 1 N/O contact or identical solid-state relays, screw connection, for mounting on NS 35/7,5

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