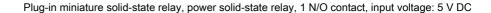


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## Your advantages

- · 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

### **Commercial Data**

Item number	2967989
Packing unit	1 pc
Minimum order quantity	10 pc
Sales Key	C05
Product Key	CK61F2
Catalog Page	Page 396 (C-5-2019)
GTIN	4017918820763
Weight per Piece (including packing)	5.24 g
Weight per Piece (excluding packing)	3.5 g
Customs tariff number	85364190
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	0.05 W
Test voltage Input/output	2.5 kV (50 Hz, 1 min., input/output)

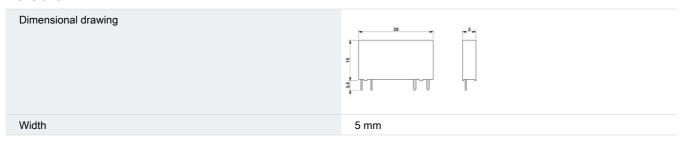
### Input data

Nominal input voltage U <sub>N</sub>	5 V DC
Input voltage range in reference to U <sub>N</sub>	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 <sub>N</sub>	9 mA
Typical response time	20 μs (at U <sub>N</sub> )
Typical turn-off time	300 μs (at U <sub>N</sub> )
Transmission frequency	300 Hz

### Output data

Contact type	1 N/O contact
Design of digital output	electronic
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-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection

#### **Dimensions**





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Height	28 mm
Depth	15 mm

### 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

## 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

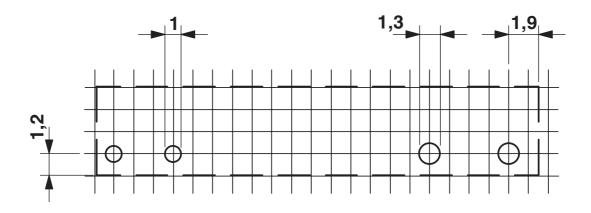


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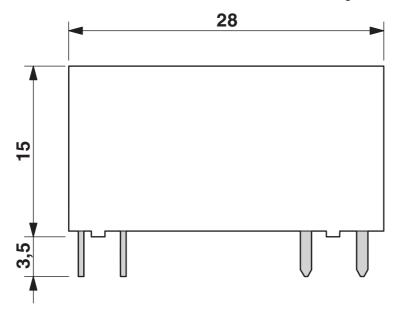
# Drawings

### Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm

### Dimensional drawing

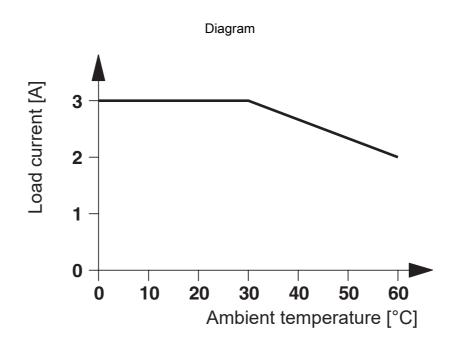




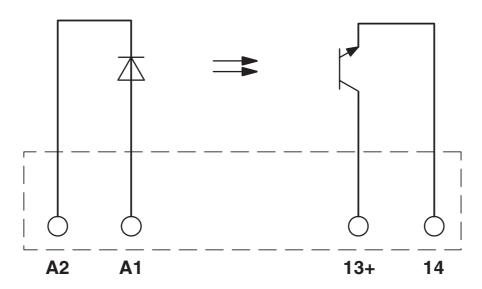


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## Circuit diagram





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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



Approval ID: TE/2109/880590/16



cUL Recognized

Approval ID: FILE E 195083



Approval ID: 46016-03 HH Cross Section mm<sup>2</sup> Nominal Voltage U<sub>N</sub> Nominal Current I<sub>N</sub> Cross Section AWG



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# Classifications

### **ECLASS**

	ECLASS-9.0	27371604	
	ECLASS-10.0.1	27371604	
	ECLASS-11.0	27371604	
ETIM			
	ETIM 8.0	EC001504	
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- 5DC/21 - 2900443

https://www.phoenixcontact.com/us/products/2900443



 $6.2~\rm mm$  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 5 V DC

#### Relay base

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

https://www.phoenixcontact.com/us/products/2980225



 $6.2~\rm mm$  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 5 V DC



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#### Relay base

Relay base - PLC-BSC- 5DC/ 1/SEN - 2980267 https://www.phoenixcontact.com/us/products/2980267



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 5 V DC

#### Relay base

Relay base - PLC-BPT- 5DC/ 1/ACT - 2900448 https://www.phoenixcontact.com/us/products/2900448



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 5 V DC



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#### Relay base

Relay base - PLC-BSC- 5DC/ 1/ACT - 2980241 https://www.phoenixcontact.com/us/products/2980241



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 5 V DC

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