

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



2982100

<https://www.phoenixcontact.com/pt/produtos/2982100>

Note que os dados aqui indicados foram obtidos a partir do catálogo online. Para informações e dados completos, consulte a documentação do utilizador. Aplicam-se as condições gerais de utilização para downloads da Internet



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/5 A

Vantagens

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

Dados comerciais

N.º de artigo	2982100
Pcs./Emb	10 Unidade
Quantidade mínima de pedido	10 Unidade
Chave comercial	DK6
Chave de produto	DK69L1
GTIN	4017918937492
Peso por unidade (inclusive embalagem)	11,65 g
Peso por unidade (excluindo embalagem)	11,65 g
Número do imposto alfandegário	85364190
País de origem	HU

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Dados técnicos

Product properties

Product type	Single solid-state relay
Operating mode	100% operating factor

Insulation characteristics: Standards/regulations

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	19.03.2025
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Electrical properties

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

Standards/regulations

Rated insulation voltage	100 V DC
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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 in reference to U_N	0.4
Switching threshold "1" signal in reference to U_N	0.7
Typical input current at U_N	7 mA
Typical response time	20 μ s
Typical turn-off time	400 μ s
Protective circuit	Reverse polarity protection; Polarity protection diode
Transmission frequency	300 Hz

Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output nominal voltage	24 V DC
Output voltage range	3 V DC ... 33 V DC
Limiting continuous current	5 A (see derating curve)
Maximum inrush current	15 A (10 ms)
Surge voltage protection	> 33 V DC
Voltage drop at max. limiting continuous current	$\leq$ 200 mV
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection

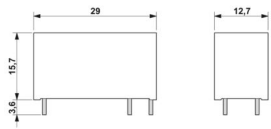
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Dimensions

Dimensional drawing	
Width	12.7 mm
Height	29 mm
Depth	15.7 mm

Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V0 (Housing)

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 note	in rows with zero spacing
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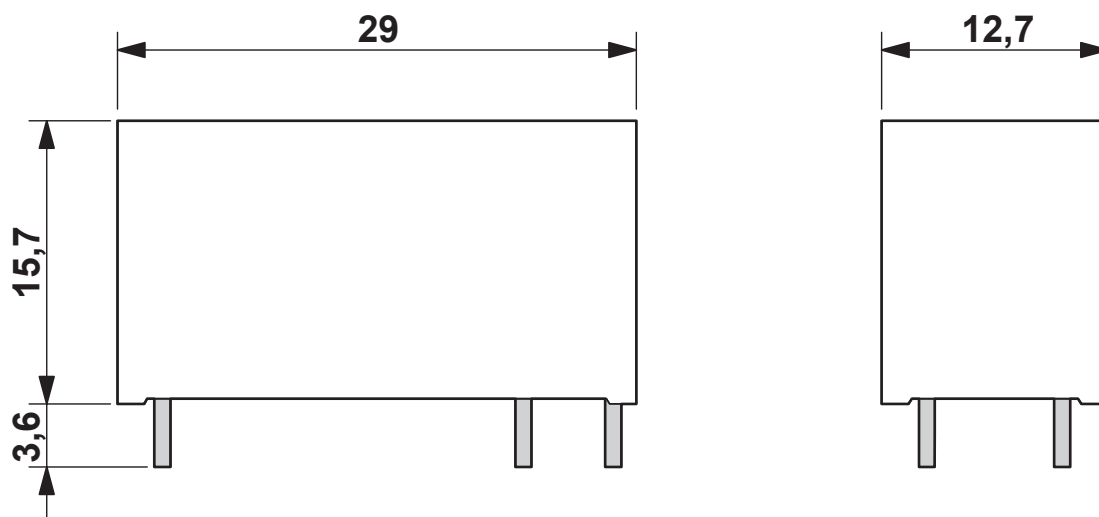
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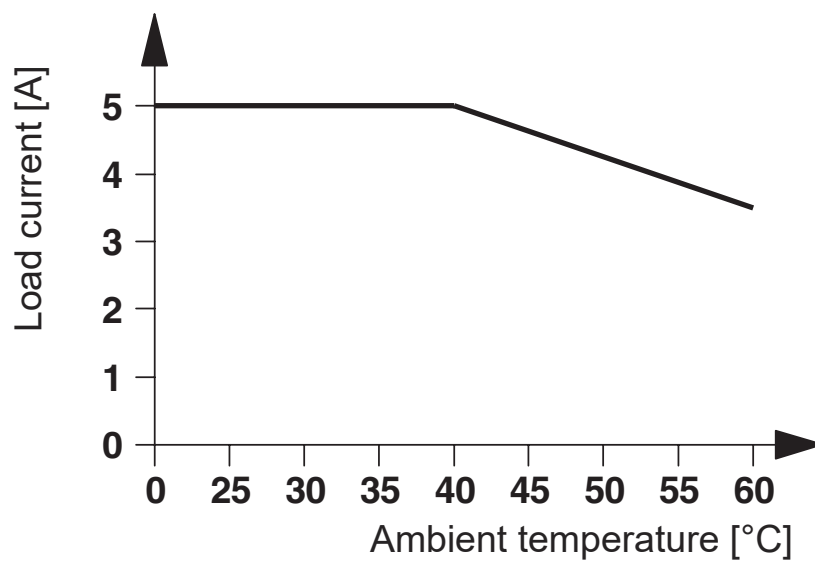
<https://www.phoenixcontact.com/pt/produtos/2982100>

Desenhos

Dimensional drawing



Diagram

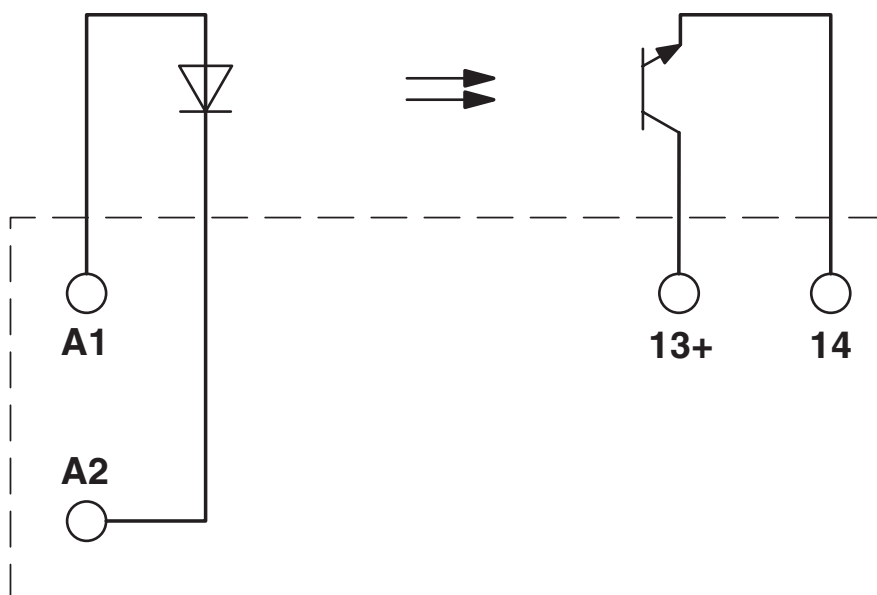


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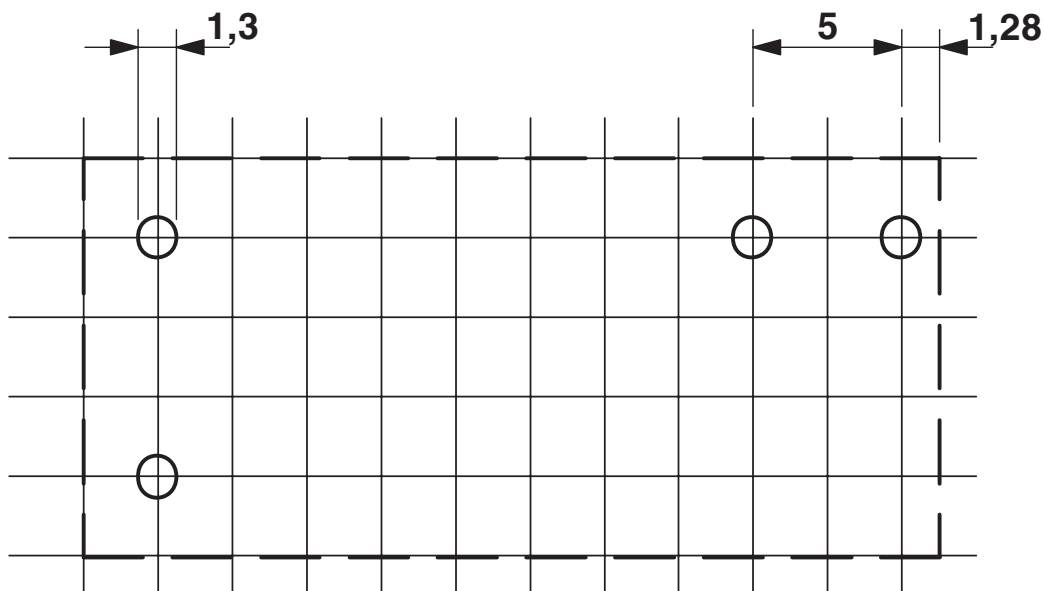
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Circuit diagram



Pin assignments: View of the connections

Drilling plan/solder pad geometry



Basic pitch 2.5 mm

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Certificações

📄 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pt/produtos/2982100>



cUL Recognized

ID de certificação: FILE E 195083



UL Recognized

ID de certificação: FILE E 195083



EAC

ID de certificação: RU*C-DE.*08.B.00010



UL Recognized

ID de certificação: FILE E 195083



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ID de certificação: FILE E 195083

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Classificações

ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

ETIM

ETIM 9.0	EC001504
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UNSPSC

UNSPSC 21.0	39122300
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Environmental product compliance

EU RoHS

Cumpra os requisitos de substância segundo a Diretiva RoHS	Sim
isenções tanto quanto conhecido	7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	Nenhuma substância perigosa acima dos valores-limite

EU REACH SVHC

Nota sobre as substâncias candidatas ao REACH (n.º CAS)	Nenhuma substância numa proporção superior a 0,1 % em massa
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