

2982728

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PLC solid-state relay with screw connection, for mounting on DIN rail NS 35/7.5, input: 24 V DC, output: TTL (5 V DC)

Your advantages

- · 6.2 mm narrow design width
- · Screw and spring-cage connection
- · Resistant to vibrations and shocks
- · Status indicator
- · Bridging options
- · Integrated protection circuit
- Switching power TTL (5 V), fan out = 1

Commercial data

Item number	2982728
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK6223
Catalog page	Page 416 (C-5-2019)
GTIN	4046356170604
Weight per piece (including packing)	34.51 g
Weight per piece (excluding packing)	30 g
Customs tariff number	85364190
Country of origin	DE



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Technical data

Product properties

Product type	Solid-state relay module
Product family	PLC-INTERFACE
Application	TTL signal at output
Operating mode	100% operating factor
Data management status	
Date of last data management	16.09.2024
Article revision	08

Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	0.08 W
Test voltage (Input/output)	2.5 kV _{rms} (50 Hz, 1 min., input/output)
Air clearances and creepage distances between the power circuits	
Air clearances and creepage distances between the power circuits Rated insulation voltage	250 V DC

Input data

Rated actuating voltage U _C	24 V DC
Voltage range with reference to U_C	0.8 1.2
Rated actuating current $I_{\mathbb{C}}$	3.4 mA
Switching threshold "0" signal in reference to U_N	< 0.4
Switching threshold "1" signal in reference to U_N	> 0.8
Typical input current at U _N	3.4 mA
Typical response time	35 µs
Typical turn-off time	35 µs
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection; Parallel polarity protection diode
	Surge protection
Surge voltage protection	> 33 V
Transmission frequency	1 kHz

Output data

Designation	Output data
Contact switching type	1 N/O contact
Design of digital output	electronic
Contact connection type	Signal contact



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Rated control circuit supply voltage U_S	5 V DC
Voltage range with reference to \mathbf{U}_{S}	0.9 1.2
Output voltage range	4.5 V DC 6 V DC
Limiting continuous current	50 mA (a TTL load (Fan out = 1))
Fan out	1
Surge voltage protection	> 8 V
Voltage drop at max. limiting continuous current	< 80 mV
Output circuit	3-conductor, ground-referenced
Protective circuit	Reverse polarity protection; Parallel polarity protection diode
	Surge protection

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.14 mm² 2.5 mm²
Conductor cross section flexible	0.14 mm² 2.5 mm²
	0.2 mm² 2.5 mm² (Single ferrule)
	2x 0.5 mm ² 1.5 mm ² (TWIN ferrule)
Conductor cross section AWG	26 14
Tightening torque	0.45 Nm 0.55 Nm (Usually these terminal blocks must be supported during conductor connection (held by one hand, supported on the housing))

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 85 °C

Approvals

Corrosive gas test

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



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Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	IEC 60947-5-1
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Mounting

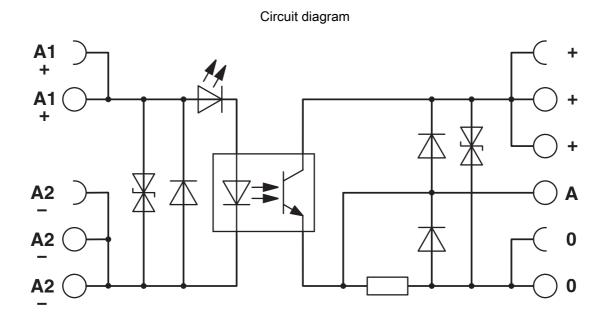
Mounting type	DIN rail mounting
Thread type	()
Assembly note	in rows with zero spacing
Mounting position	any



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Drawings





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2982728



cUL RecognizedApproval ID: E238705



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EAC

Approval ID: TR_TS_D_00573_c



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Approval ID: FILE E 172140



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Approval ID: E140324

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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27371604
ECLASS-12.0	27371604
ECLASS-13.0	27371604
ETIM	
ETIM 9.0	EC001504
UNSPSC	

39122300



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	ab4f4702-1e37-43e4-8dde-45a9720c9169

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