

PLC-OSC- 24DC/TTL - Solid-state relay module



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	1 pc
Sales Key	CK6
Product Key	CK6211
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

Insulation characteristics

Insulation	Basic insulation
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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

Rated insulation voltage	250 V DC
Rated surge voltage	4 kV

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_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 μ s
Typical turn-off time	35 μ s
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 type	1 N/O contact
Design of digital output	electronic
Type of contact	Signal contact
Rated control circuit supply voltage U_S	5 V DC

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Voltage range with reference to 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 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ² 0.2 mm ² ... 2.5 mm ² (Single ferrule) 2x 0.5 mm ² ... 1.5 mm ² (TWIN ferrule)
Conductor cross section AWG	26 ... 14
Tightening torque	0.6 Nm ... 0.8 Nm

Dimensions

Width	6.2 mm
Height	80 mm
Depth	86 mm

Material specifications

Flammability rating according to UL 94	V0 (Housing)
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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

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
Assembly instructions	in rows with zero spacing
Mounting position	any

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