

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



2900363

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PLC-INTERFACE for TTL signal, consisting of PLC-O.../TTL basic terminal block with push-in connection and integrated solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: TTL (5 V DC)

Your advantages

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

Commercial Data

Item number	2900363
Packing unit	10 pc
Minimum order quantity	1 pc
Sales Key	CK6
Product Key	CK6235
Catalog Page	Page 416 (C-5-2019)
GTIN	4046356508995
Weight per Piece (including packing)	28.96 g
Weight per Piece (excluding packing)	30.15 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	Push-in connection
Stripping length	10 mm
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 mm ² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

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

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Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any

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