PLC-SC-TR/INV - Switching amplifier

1395229

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The inverter module with screw connection inverts the signals of ground switching NPN transistor outputs into positive switching PNP outputs, as well as signals from PNP into NPN switching signals.

Commercial data

Item number	1395229
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	DK6213
Product key	DK6223
GTIN	4063151778408
Weight per piece (including packing)	34.2 g
Weight per piece (excluding packing)	26.95 g
Customs tariff number	85365019
Country of origin	DE

Technical data

Notes

Notes on operation	The PLC-ATP divider plate should be installed for safe isolation between adjacent modules
Notes on operation	At least one functional insulation against adjacent modules is complied with in the support rail direction. If the application has higher requirements on the insulation (basic or reinforced insulation), then these must be realized through suitable measures (e. g., divider plates).
Notes on operation	This item is intended to be used exclusively as a supplied part for further processing by industry, trade, or other companies with expertise in the field of EMC.

Product properties

Product type	Solid-state relay module
Product family	PLC-INTERFACE
Operating mode	100% operating factor

Insulation characteristics

Overvoltage category	II
Pollution degree	2

Electrical properties

Rated insulation voltage	50 V DC
Rated surge voltage	0.5 kV

Supply

Supply voltage U_{Vcc}	24 V DC
Supply voltage range	20 V DC ... 30 V DC

Input data

Typical input current at U_N	6 mA
Protective circuit	Surge protection
Surge voltage protection	> 33 V
Transmission frequency	15 kHz

NPN

Switching threshold "1" signal voltage	≤ 5 V (at U_{Vcc})
Switching threshold "0" signal, voltage	≥ 15 V (at U_{Vcc})
Min. voltage input signal	-2 V
Max. voltage input signal	26 V

PNP

Switching threshold "1" signal voltage	≥ 19 V
Switching threshold "0" signal, voltage	≤ 9 V
Min. voltage input signal	-2 V

Max. voltage input signal	26 V

Output data

Continuous load current	200 mA (OUT1/OUT2)
Leakage current	< 1 mA
Residual voltage	< 1 V
Transmission frequency	15 kHz
Surge voltage protection	> 33 V
Protective circuit	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	0.2 mm² ... 2.5 mm²
Conductor cross-section flexible (2 conductors with same cross section)	0.5 mm² ... 1 mm² (TWIN ferrule with plastic sleeve)
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

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (Device)
Degree of protection (Installation location)	IP54 (Installation location)
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m

Standards and regulations

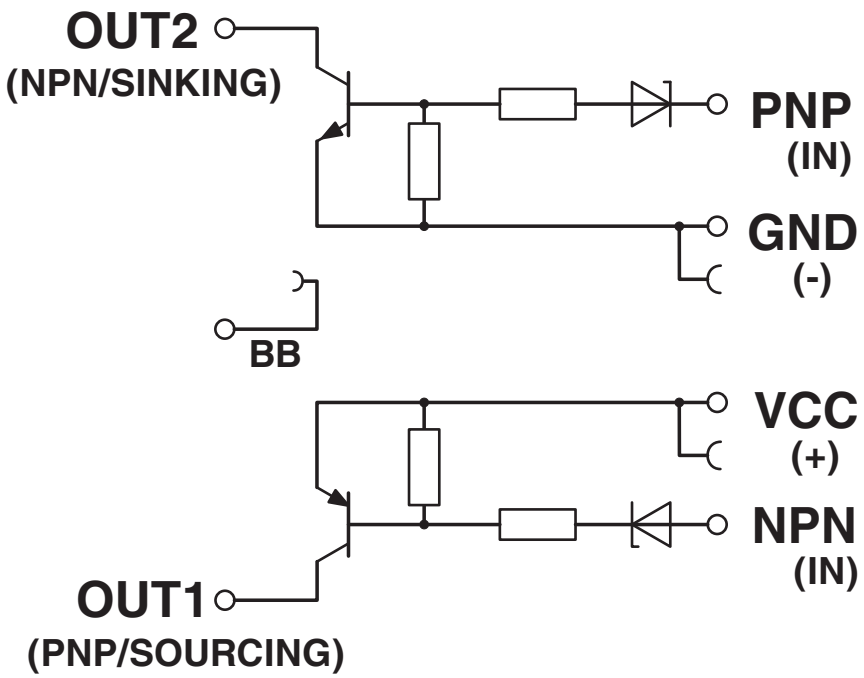
Standards/regulations	DIN EN 60664-1

Mounting

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

Drawings

Block diagram



Application examples are provided in the packing slip

Approvals

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cULus Listed
Approval ID: E140324

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Classifications

ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

ETIM

ETIM 10.0	EC001504

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

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	967fe662-a3f7-43ba-ac49-dc48e0164ab5

EF3.1 Climate Change

CO2e kg	1.257 kg CO2e

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