

# PLC-PT-TR/INV - Switching amplifier



1395232

<https://www.phoenixcontact.com/in/products/1395232>

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The inverter module with Push-in 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	1395232
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	DK6223
GTIN	4063151776879
Weight per piece (including packing)	29.15 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 separating 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., partition 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	$\leq 5 \text{ V (at } U_{VCC})$
Switching threshold "0" signal, voltage	$\geq 15 \text{ V (at } U_{VCC})$
Min. voltage input signal	-2 V
Max. voltage input signal	26 V

#### PNP

Switching threshold "1" signal voltage	$\geq 19 \text{ V}$
Switching threshold "0" signal, voltage	$\leq 9 \text{ V}$
Min. voltage input signal	-2 V

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Max. voltage input signal	26 V
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## 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	Push-in connection
Stripping length	8 mm
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible (2 conductors with same cross section)	0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup> (TWIN ferrule with plastic sleeve)
Conductor cross-section AWG	26 ... 14

## 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

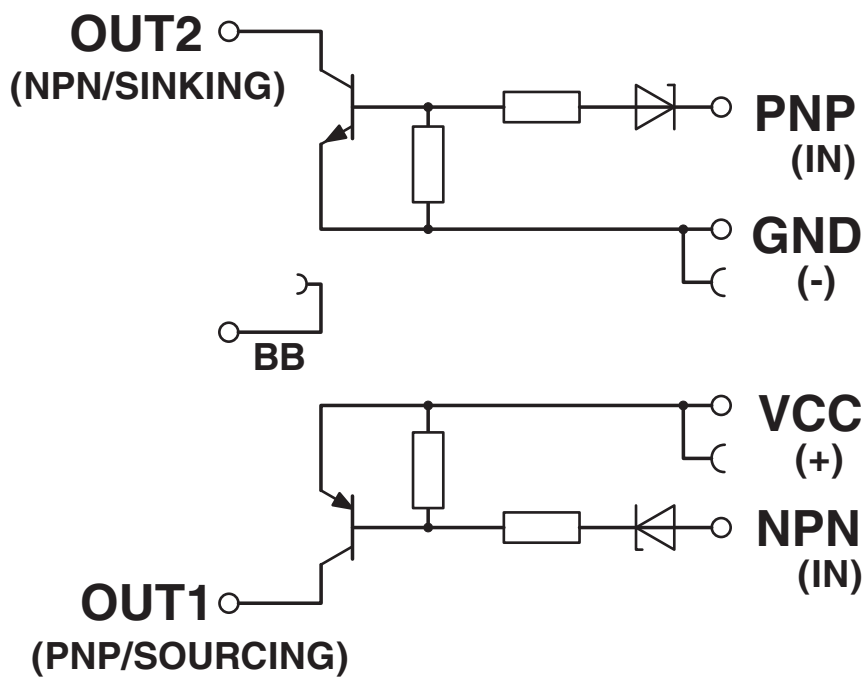
Standards/regulations	DIN EN 60664-1
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## Mounting

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

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## 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 9.0	EC001504
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### UNSPSC

UNSPSC 21.0	39122300
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## 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	bf2786a3-da31-44ce-9c65-0dfa90e0d324

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