PLC-BPT-TTL/1 - Relay base

2900458

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6.2 mm PLC basic terminal block for TTL signal with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage TTL (5 V DC)

Your advantages

- 6.2 mm narrow design width
- Screw and spring-cage connection
- RT III protection
- Safe isolation in accordance with EN 50178 (VDE 0160)
- Status indicator
- 4 kV_{rms} electrical isolation between coil and contact
- Bridging options

Commercial data

Item number	2900458
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	DK62A1
GTIN	4046356507783
Weight per piece (including packing)	27.19 g
Weight per piece (excluding packing)	27.19 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area

Product properties

Product type	Relay socket
Product family	PLC-INTERFACE
Application	TTL signal at input
Operating mode	100% operating factor

Input data

Nominal input voltage U_N	5 V DC (TTL)
	The nominal voltage of the plug-on electromechanical relay or solid-state relay (see necessary accessories) deviates from the nominal input voltage of the base with integrated upstream circuit
	5 V DC (TTL)
	The nominal voltage of the plug-on electromechanical relay or solid-state relay (see necessary accessories) deviates from the nominal input voltage of the base with integrated upstream circuit

Relay assembly

Rated control circuit supply voltage U_S	5 V DC
Voltage range with reference to U_S	0.9 ... 1.2
Rated control supply current I_S	41 mA
Rated actuating voltage U_C	5 V DC (TTL)
Voltage range with reference to U_C	0.9 ... 1.2
Rated actuating current I_C	2.5 mA
Typical response time	4.5 ms
Typical release time	3.5 ms
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection
	Surge protection
Surge voltage protection	> 6.5 V

Optocoupler assembly

Rated control circuit supply voltage U_S	5 V DC
Voltage range with reference to U_S	0.9 ... 1.2
Rated control supply current I_S	11.5 mA
Rated actuating voltage U_C	5 V DC (TTL)
Rated actuating current I_C	2.5 mA
Switching level 1 signal ("H") (TTL signal)	> 2 V DC
Switching level 0 signal ("L") (TTL signal)	< 0.8 V DC

Typical response time	35 µs
Typical release time	320 µs
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection
	Surge protection
Transmission frequency	1000 Hz
Surge voltage protection	> 6.5 V

Output data

Maximum switching voltage	48 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	< 1 V
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection
Maximum switching voltage	33 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	3 A
Voltage drop at max. limiting continuous current	< 200 mV
Maximum inrush current	15 A (10 ms)
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection

Connection data

Connection method	Push-in connection
Stripping length	10 mm
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 mm² ... 1 mm² (TWIN ferrule)
Conductor cross-section AWG	26 ... 14

Dimensions

Item dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Material specifications

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

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-20 °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

Standards and regulations

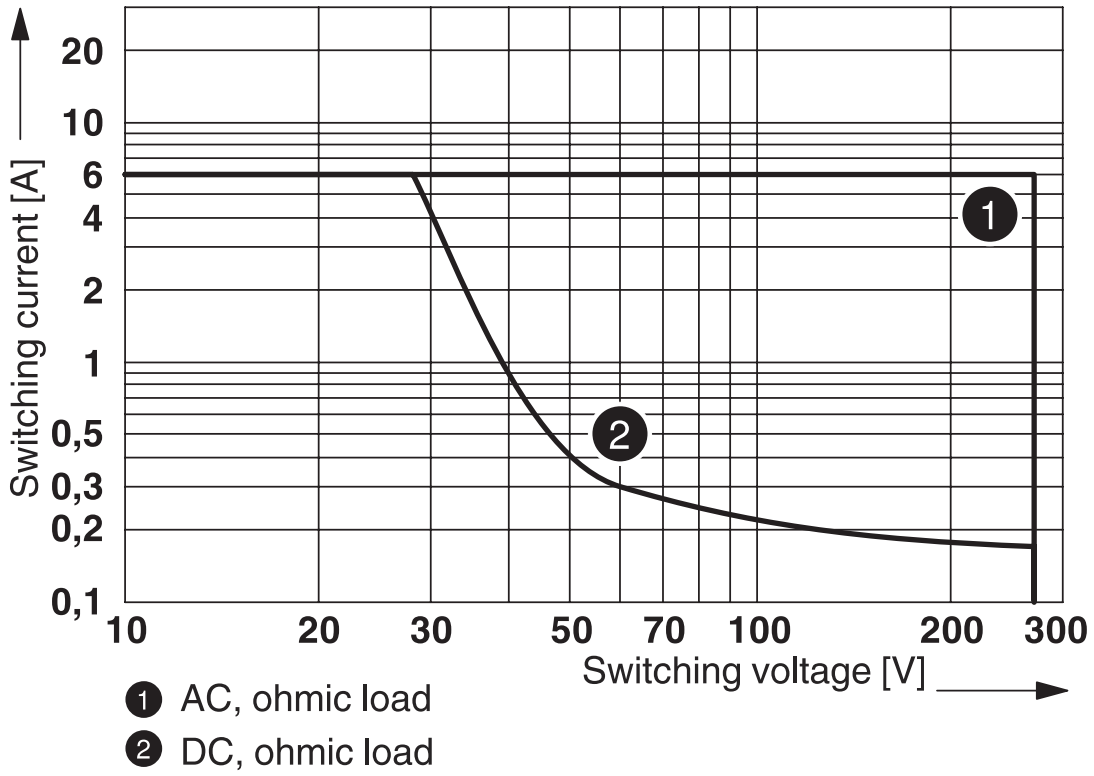
Standards/regulations	IEC/EN 60664-1

Mounting

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

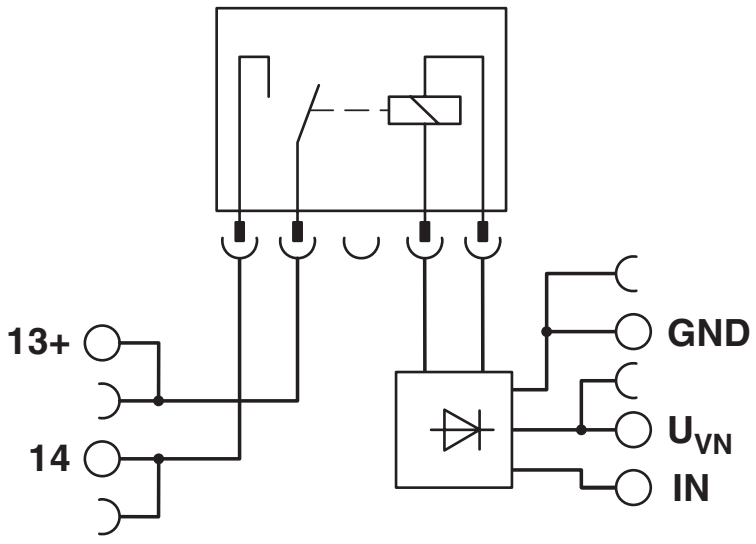
Drawings

Diagram

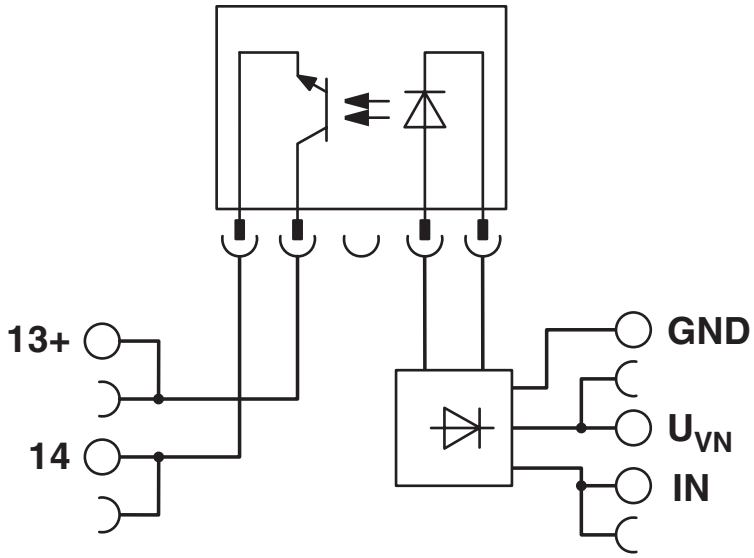


Max. interrupting rating

Circuit diagram



Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2900458

cUL Recognized
Approval ID: E238705

UL Recognized
Approval ID: E238705

EAC
Approval ID: RU D-DE.B*00573/18

Classifications

ECLASS

ECLASS-13.0	27371603
ECLASS-15.0	27371603

ETIM

ETIM 10.0	EC001456

UNSPSC

UNSPSC 21.0	39122300

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	8ef2651d-ef2d-437b-a31b-7f216f6840fa

EF3.1 Climate Change

CO2e kg	0.909 kg CO2e

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