

PLC-BSP-TTL/1 - Relay base

2982692

<https://www.phoenixcontact.com/us/products/2982692>



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6.2 mm PLC basic terminal block for TTL signal with spring-cage 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
- Bridging options
- 4 kV_{rms} electrical isolation between coil and contact

Commercial data

Item number	2982692
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C461
Product key	DK6211
GTIN	4046356155229
Weight per piece (including packing)	28.14 g
Weight per piece (excluding packing)	26.55 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
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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)
	5 V DC (TTL)

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 μ s
Typical release time	320 μ s
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection
	Surge protection

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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

Input side

Connection method	Spring-cage connection
Stripping length	8 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
Conductor cross-section AWG	26 ... 14

Output side

Connection method	Spring-cage connection
Stripping length	8 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
Conductor cross-section AWG	26 ... 14

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94 (Housing)	V0 (Housing)

Environmental and real-life conditions

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Ambient conditions

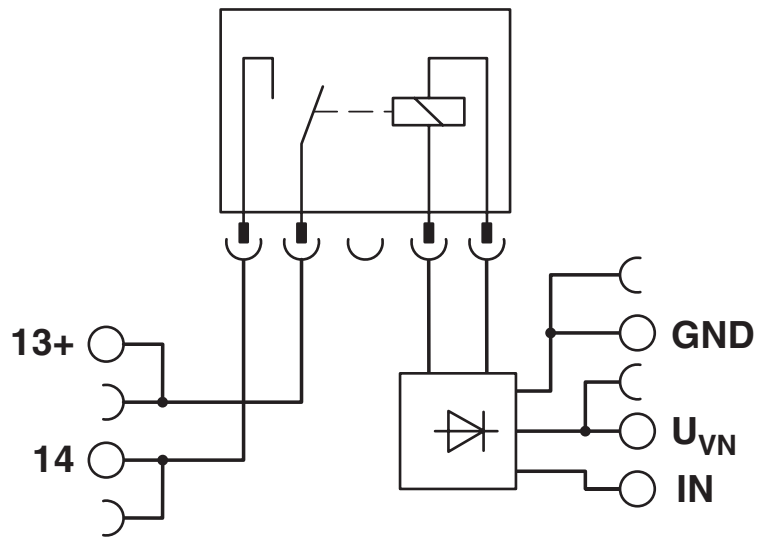
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Mounting

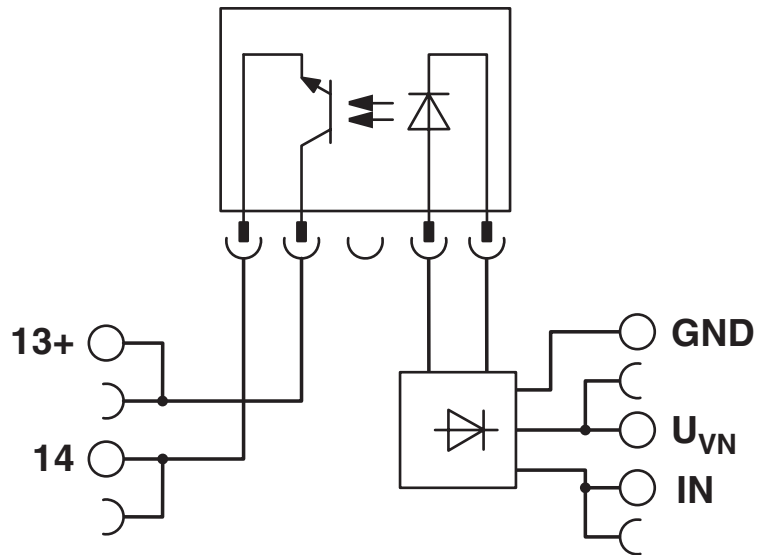
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

Drawings

Circuit diagram



Circuit diagram



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Environmental product compliance

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.)	No substance above 0.1 wt%
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