

PLC-BPT- 24DC/21RW - Relay base



2900261

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6.2 mm PLC basic terminal block for railway applications with Push-in connection, without relay or solid-state relay, range from $0.7 \times U_N$ to $1.25 \times U_N$, temperature range from -25°C to $+70^{\circ}\text{C}$, 1 changeover contact, input voltage 24 V DC

Your advantages

- Vibration and shock resistance in accordance with EN 50155
- Safe isolation between coil and contact side
- Input voltage range of 0.7 to 1.25 x UN
- Temperature range: -25°C ... $+70^{\circ}\text{C}$

Commercial data

Item number	2900261
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	DK62AL
GTIN	4046356512916
Weight per piece (including packing)	30.554 g
Weight per piece (excluding packing)	27.73 g
Customs tariff number	85366990
Country of origin	DE

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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	Railway applications
Operating mode	100% operating factor
Compatible components	Miniature relay, REL-MR-18DC/21AU, REL-MR-18DC/21

Electrical properties

Protective circuit	Damping diode, polarity protection diode
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Input data

Nominal input voltage U_N	24 V DC 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
Protective circuit	Freewheeling diode
Nominal input voltage U_N	24 V DC 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

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.65 ... 1.25
Typical input current at U_N	12 mA
Typical response time	5 ms
Typical release time	8 ms
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode Freewheeling diode; Freewheeling diode

Output data

Compatible components	Miniature relay, REL-MR-18DC/21AU, REL-MR-18DC/21
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Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross-section rigid	0.14 mm ² ... 2.5 mm ²

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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

Signaling

Status display	LED
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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)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Approvals

CE

Certificate	CE-compliant
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UKCA

Certificate	UKCA-compliant
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Shipbuilding approval

Certificate	TAE0000196
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Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Shipbuilding data

Temperature	D
Humidity	A
Vibration	B/C
EMC	B
Enclosure	Required protection according to the Rules shall be provided upon installation on board

EMC data

Electromagnetic compatibility	Conformance with EMC directive
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Low Voltage Directive	Conformance with Low Voltage Directive
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Standards and regulations

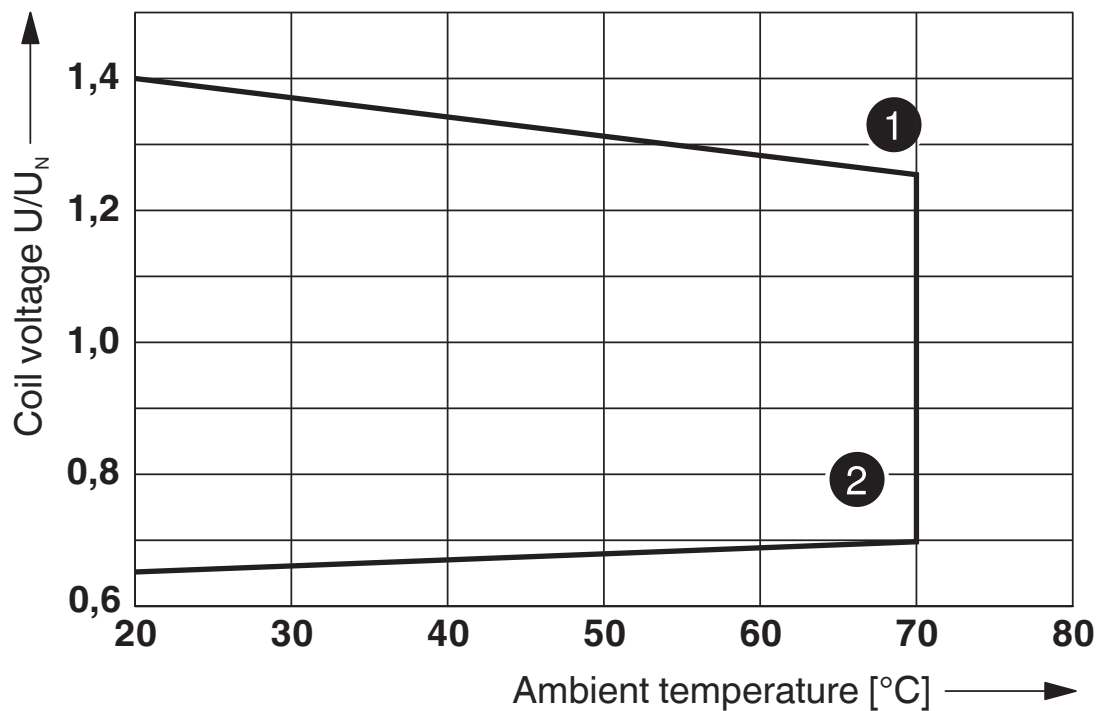
Standards/regulations	IEC/EN 60664-1
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Mounting

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

Drawings

Diagram



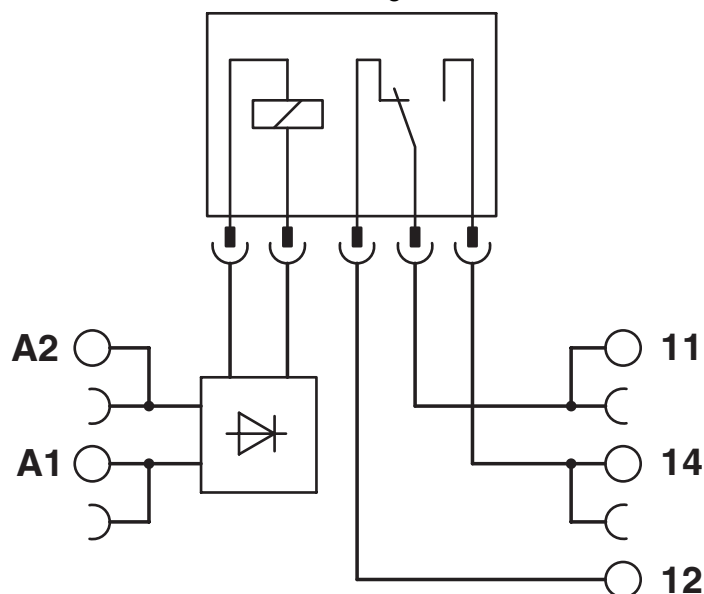
① Maximum continuous voltage at limiting continuous current = 3 A

② Minimum operate voltage

For pre-excitation with U_N and limiting continuous current = 3 A

Operating voltage range

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2900261>



cUL Recognized
Approval ID: E238705



UL Recognized
Approval ID: E238705



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



DNV GL
Approval ID: TAE0000196

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Classifications

ECLASS

ECLASS-13.0	27371603
ECLASS-15.0	27371603

ETIM

ETIM 9.0	EC001456
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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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: n/a)
SCIP	dedc5752-d2e8-4285-9b25-0090fd6048b7

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