

1480226

<https://www.phoenixcontact.com/au/products/1480226>

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Safe coupling relay with force-guided contacts, electrically isolated, 2 changeover contacts, 1-channel, fixed screw terminal block, width: 14 mm

Commercial data

Item number	1480226
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	DNA162
Product key	DNA162
GTIN	4063151897741
Weight per piece (including packing)	80.38 g
Weight per piece (excluding packing)	76 g
Customs tariff number	85364190
Country of origin	DE

PSR-PLC21-2CO-24DC-SC - Coupling relay



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Technical data

Notes

Note on application

Note on application	Only for industrial use
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Product properties

Product type	Coupling relay
Product family	PLC-INTERFACE
Application	Forcibly guided contacts
Mechanical service life	approx. 10^7 cycles
Relay type	Electromechanical relay in accordance with IEC/EN 61810

Insulation characteristics

Overvoltage category	III
Pollution degree	2
Overvoltage category	III
Degree of pollution	2

Times

Typ. starting time with U_s	< 70 ms (when controlled via A1)
Typical release time	< 50 ms (on demand via A1)
Recovery time	500 ms (following demand of the safety function)

Electrical properties

Maximum power dissipation for nominal condition	4.825 W ($U_B = 30$ V, $U_S = 24$ V, $I_S = 30$ mA, $I_L^2 = 37$ A, $R_{\text{contact}} = 0.1 \Omega$)
Nominal operating mode	100% operating factor
Rated insulation voltage	250 V AC
Rated surge voltage/insulation	Basic insulation 4 kV between all current paths and housing Safe isolation, reinforced insulation 6 kV between 250 V load current paths and 24 V logic paths

Supply

Designation	A1/A2
Rated control circuit supply voltage U_S	21.6 V DC ... 28.8 V DC
Rated control circuit supply voltage U_S	24 V DC -10 % / +20 %
Rated control supply current I_S	30 mA
Inrush current	typ. 100 mA ($\Delta t = 10$ ms at U_S)
Filter time	1 ms (Test pulse width, high test pulse and low test pulse) 1 s (Test pulse rate, high test pulse and low test pulse)
Power consumption at U_D	650 mW (to U_S)
Protective circuit	Serial protection against polarity reversal; Suppressor diode, 38.6 V/600 W
Status display	1 x green LED (PWR)

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Output data

Relay: Relay outputs (11/12/14, 21/22/24)

Output description	safety-related
Number of outputs	2
Contact switching type	2 changeover contacts
Contact material	AgNi
Switching capacity	min. 150 mW (N/O contact / N/C contact)
Inrush current	max. 6 A (N/O contact) max. 4 A (N/C contact)
Limiting continuous current	6 A (N/O contact, high demand) 4 A (N/O contact, low demand) 4 A (N/C contact, high-demand) 2.4 A (N/C contact, low-demand)
Sq. Total current	37 A ² (N/O contact, high-demand, observe derating) 16 A ² (N/C contact, high-demand, observe derating)
Switching frequency	max. 1 Hz
Mechanical service life	10 ⁷ cycles
Output fuse	6 A gL/gG 4 A gL/gG (for low-demand applications)

Connection data

Conductor connection

Connection method	Screw connection
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 flexible, with ferrule without plastic sleeve	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	26 ... 14
Stripping length	8 mm
Screw thread	M3
Tightening torque	0.5 Nm

Signaling

Operating voltage display	1 x green LED (PWR)
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Dimensions

Width	14 mm
Height	80 mm
Depth	104 mm

Material specifications

Color (Housing)	yellow (RAL 1018)
Housing material	PA

Characteristics

Safety data: EN ISO 13849

Category	1
Performance level (PL)	c

Safety data: IEC 61508 – High-demand for 1-channel wiring (1oo1 structure)

Safety Integrity Level (SIL)	1
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Safety data: IEC 61508 – Low-demand for 1-channel wiring (1oo1 structure)

Safety Integrity Level (SIL)	1
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Safety data: EN IEC 62061

Safety Integrity Level (SIL)	2
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Min. degree of protection of inst. location	IP54
Ambient temperature (operation)	-20 °C ... 60 °C (observe derating)
Ambient temperature (storage/transport)	-20 °C ... 85 °C
Maximum altitude	≤ 2000 m (Above sea level)
Max. permissible humidity (storage/transport)	75 % (on average; 95% occasionally, non-condensing)
Max. permissible relative humidity (operation)	75 % (on average; 95% occasionally, non-condensing)
Shock	10g for $\Delta t = 11$ ms (continuous shock: 5g for $\Delta t = 16$ ms)
Vibration (operation)	10 Hz ... 150 Hz, amplitude 0.75 mm, 1g

Approvals

CE

Identification	CE-compliant
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Mounting

Mounting type	DIN rail mounting
Assembly note	See derating curve
Mounting position	vertical or horizontal

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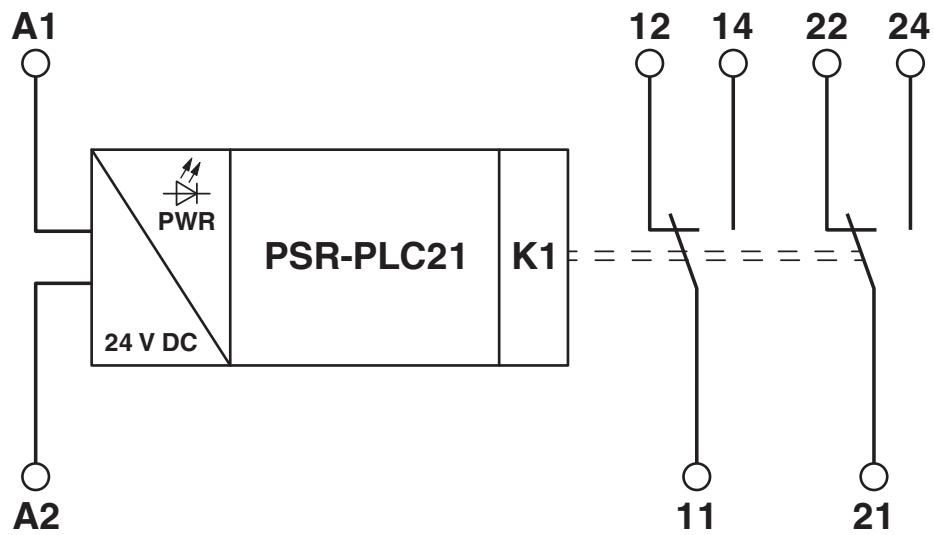


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Drawings

Block diagram




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Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/1480226>



Functional Safety

Approval ID: 4478015124326



cULus Listed

Approval ID: E140324

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Classifications

ECLASS

ECLASS-13.0	27371601
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ETIM

ETIM 9.0	EC001437
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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	51d1e278-3deb-43ec-9dbd-c5c8e6cae076

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