

PSR-ME30-4NO-1NC-24DC-SC - Safety relays



1397656

<https://www.phoenixcontact.com/us/products/1397656>

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Safety relay as contact extension, 4 enabling current paths, 1 confirmation current path, together with basic device up to Cat. 3, PL d in accordance with EN ISO 13849, plug-in screw terminal block, width: 22.5 mm

Product description

The safety relay is used as a contact extension for safety relays for emergency stop, safety door, and light curtain monitoring and safely interrupts circuits. The enabling current paths drop without a delay.

Your advantages

- Up to Cat. 3/PL d in accordance with ISO 13849-1, SIL 2 in accordance with EN IEC 62061, SIL 2 in accordance with EN IEC 61508
- 4 undelayed enabling current paths, 1 signaling current path
- 1-channel control
- Reinforced insulation

Commercial data

Item number	1397656
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN01
Product key	DN1114
GTIN	4063151782450
Weight per piece (including packing)	167.9 g
Weight per piece (excluding packing)	147.9 g
Customs tariff number	85371098
Country of origin	DE

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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	Safety relays
Product family	PSRclassic
Application	Extension module
Set comprises	1397657 PSR-ME30-4NO-1NC-24DC-SC-SET35
Control	1-channel
Mechanical service life	approx. 10^7 cycles
Relay type	Electromechanical relay with force-guided contacts in accordance with IEC/EN 61810-3

Insulation characteristics

Overvoltage category	II, III (See the section "Insulation coordination")
Degree of pollution	2

Times

Typ. starting time with U_s	20 ms (when controlled via K1/K2)
Typical release time	20 ms (when requested via K1/K2)

Electrical properties

Maximum power dissipation for nominal condition	16.4 W ($U_{K1/K2} = 26.4$ V, $I_L^2 = 72$ A ² , $P_{Total\ max} = 2$ W + 14.4 W)
Nominal operating mode	100% operating factor
Rated insulation voltage	250 V
Rated surge voltage/insulation	See data sheet, section "Insulation coordination".

Input data

Digital: K1/K2

Description of the input	safety-related
Number of inputs	1
Input voltage range "1" signal	20.4 V ... 26.4 V
Inrush current	typ. 130 mA ($\Delta t = 800$ ms)
Max. permissible overall conductor resistance	50 Ω
Protective circuit	Suppressor diode
Current consumption	typ. 67 mA

Output data

Relay: Enabling current paths (13/14, 23/24, 33/34, 43/44)

Output description	2 N/O contacts each in series, safety-related, floating
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Number of outputs	4
Contact switching type	4 enabling current paths
Contact material	AgSnO ₂
Switching voltage	min. 10 V AC/DC max. 250 V AC/DC
Switching power	min. 100 mW
Inrush current	min. 10 mA max. 6 A
Switching capacity	5 A (AC15) 6 A (DC13)
Limiting continuous current	6 A (Observe derating and load limit curve)
Sq. Total current	72 A ² (observe derating)
Switching frequency	max. 0.5 Hz
Mechanical service life	10x 10 ⁶ cycles
Output fuse	10 A gL/gG 4 A gL/gG (for low-demand applications)

Relay: Confirmation current path (11/12)

Output description	Diagnostic contact, 2 NC in series, floating
Number of outputs	1
Contact switching type	2 N/C contacts in series
Contact material	AgSnO ₂
Switching voltage	min. 10 V AC/DC max. 250 V AC/DC
Switching power	min. 100 mW
Inrush current	min. 10 mA max. 6 A
Switching capacity	1 A (AC15) 1 A (DC13)
Limiting continuous current	1 A
Sq. Total current	1 A ²
Switching frequency	max. 0.5 Hz
Mechanical service life	10x 10 ⁶ cycles
Output fuse	1 A gL/gG

Connection data

Connection technology

pluggable	yes
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Conductor connection

Connection method	Screw connection
Conductor cross-section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 12

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Stripping length	7 mm
Screw thread	M3
Tightening torque	0.5 Nm ... 0.6 Nm

Signaling

Operating voltage display	1 x LED (green)
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Dimensions

Width	22.5 mm
Height	112.2 mm
Depth	114.5 mm

Material specifications

Color (Housing)	traffic gray B (RAL 7043)
Housing material	PA

Characteristics

Safety data

Stop category (EN 60204-1)	0
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Safety data: EN ISO 13849

Performance level (PL)	d (6 A DC13; 5 A AC15; 8760 switching cycles/year)
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Safety data: IEC 61508 - High demand

Safety Integrity Level (SIL)	2 (In conjunction with suitable evaluating device)
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Safety data: IEC 61508 - Low demand

Safety Integrity Level (SIL)	2 (In conjunction with suitable evaluating device)
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Safety data: EN IEC 62061

Safety Integrity Level (SIL)	2 (In conjunction with suitable evaluating device)
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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 ... 55 °C (observe derating)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Maximum altitude	≤ 2000 m (Above sea level)
Max. permissible humidity (storage/transport)	75 % (on average, 85% infrequently, non-condensing)
Max. permissible relative humidity (operation)	75 % (on average, 85% infrequently, non-condensing)
Shock	15g
Vibration (operation)	10 Hz ... 150 Hz, 2g

Approvals

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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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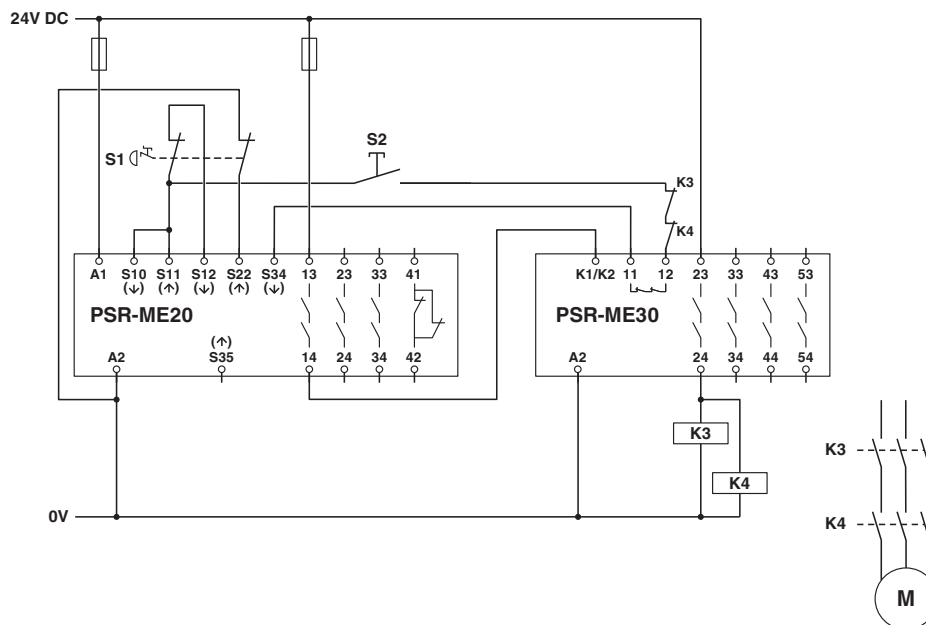


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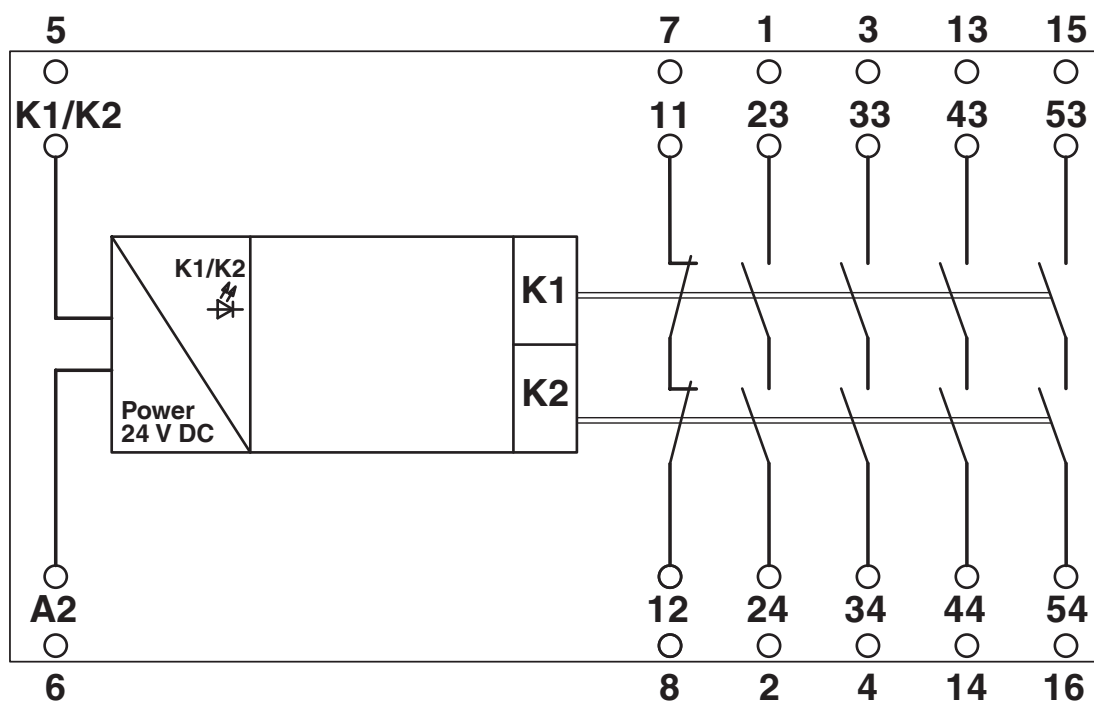
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Drawings

Circuit diagram



Block diagram



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Approvals

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cULus Listed

Approval ID: E140324



Functional Safety

Approval ID: 44-780-15124328



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Classifications

ECLASS

ECLASS-13.0	27371819
ECLASS-15.0	27371819
ECLASS-15.0 ASSET	27250101

ETIM

ETIM 10.0	EC001449
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UNSPSC

UNSPSC 21.0	39122200
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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	9b579654-8de6-41dd-81bd-5789a00fab4b

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