

PSR-MC82-5NO-1NC-1DO-24DC-SC - Extension module



2702382

<https://www.phoenixcontact.com/us/products/2702382>

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Contact extension up to SIL 3, Cat. 4, PL e in conjunction with suitable evaluation device, 5 enabling current paths, $U_S = 24 \text{ V DC}$, plug-in screw terminal block

Product description

The contact extension PSR-MC82 enables the straightforward extension of the enabling paths of a basic device. It provides five additional enabling current paths and is extremely compact with an overall width of just 17.5 mm. The PSR-MC82 is suitable for classic signal generators, such as emergency stops or safety doors, as well as for use at fail-safe controllers.

Your advantages

- Up to Cat. 4/PL e in accordance with ISO 13849-1, SIL 3 in accordance with EN IEC 62061 in conjunction with suitable evaluation device
- Low housing width of just 17.5 mm
- 1- and 2-channel control
- 5 enabling current paths, 1 confirmation current path, 1 digital signal output
- Automatic activation



Commercial data

Item number	2702382
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN01
Product key	DNA181
GTIN	4055626145471
Weight per piece (including packing)	208.71 g

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Weight per piece (excluding packing)	184.08 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	PSRcompact
Application	Extension module
Control	1 and 2 channel
Relay type	Electromechanical relay with force-guided contacts in accordance with IEC/EN 61810-3

Insulation characteristics

Overvoltage category	II, III
Degree of pollution	2

Times

Typ. starting time with U_s	< 50 ms (with U_s when controlled via A1)
Typical release time	< 25 ms (when controlled via A1)
Recovery time	< 100 ms

Electrical properties

Maximum power dissipation for nominal condition	15.2 W ($U_B = 30 \text{ V}$, $I_L^2 = 64 \text{ A}^2$; $P_{\text{Total max}} = 2.4 \text{ W} + 12.8 \text{ W}$)
Nominal operating mode	100% operating factor
Rated insulation voltage	250 V AC
Rated surge voltage/insulation	See data sheet, section "Insulation coordination".

Supply

Designation	For signal output M1
Rated control circuit supply voltage U_s	19.2 V DC ... 30 V DC
Rated control circuit supply voltage U_s	24 V DC -20 % / +25 %
Protective circuit	Serial protection against polarity reversal
	Suppressor diode
	Short-circuit protection for M1

Input data

Digital: A1

Description of the input	safety-related
Number of inputs	1
Input voltage range "1" signal	19.2 V DC ... 30 V DC
Inrush current	max. 125 mA ($\Delta t = 7 \text{ ms}$ at U_s)
	max. 1 ms (Test pulse width, high test pulse)

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Filter time	min. 10 ms (Test pulse rate, high test pulse)
	max. 1 ms (Test pulse width of low test pulses)
	min. 5 ms (Test pulse rate for low test pulse)
Protective circuit	Reverse polarity protection
	Suppressor diode
Current consumption	typ. 80 mA

Output data

Relay: Enabling current paths (23/24 ... 63/64)

Output description	2 N/O contacts in series, safety-related, floating
Number of outputs	5 (undelayed)
Contact switching type	5 enabling current paths
Contact material	AgSnO ₂
Switching voltage	min. 5 V AC/DC
	max. 250 V AC/DC (Observe the load curve)
Switching power	min. 50 mW
Inrush current	min. 10 mA
	max. 20 A (≤ 100 ms)
Switching capacity	3 A (24 V (DC13))
	3 A (250 V (AC15))
Limiting continuous current	6 A
Sq. Total current	64 A ² (observe derating)
Switching frequency	max. 0.1 Hz
Mechanical service life	10x 10 ⁶ cycles
Output fuse	10 A gL/gG
	6 A gL/gG (for low-demand applications)

Relay: Diagnostics contact (11/12)

Output description	Diagnostic contact, 2 NC in series, floating
Number of outputs	1 (undelayed)
Contact switching type	1 confirmation current path
Contact material	AgSnO ₂
Switching voltage	min. 5 V AC/DC
	max. 24 V DC
Switching power	min. 50 mW
Inrush current	min. 10 mA
	max. 1 A
Limiting continuous current	100 mA
Switching frequency	max. 0.1 Hz
Mechanical service life	10x 10 ⁶ cycles
Output fuse	1 A gL/gG (Undelayed contacts)

Signal: M1

Output description	non-safety-related
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Number of outputs	1 (digital, PNP)
Voltage	22 V DC ($U_s - 2 \text{ V}$)
Current	max. 100 mA
Maximum inrush current	500 mA ($\Delta t = 100 \text{ ms at } U_s$)
Ohmic load	min. 240 Ω
Switching frequency	0.5 Hz (ohmic)
Protective circuit	Suppressor diode
Short-circuit protection	Yes
Discharging circuit	No

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

Signaling

Status display	2 x LED (green)
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Dimensions

Width	17.5 mm
Height	112.7 mm
Depth	111.7 mm

Material specifications

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

Characteristics

Safety data

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

Performance level (PL)	e
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Safety data: IEC 61508 - High demand

Safety Integrity Level (SIL)	3 (In conjunction with suitable evaluating device)
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Safety data: IEC 61508 - Low demand

Safety Integrity Level (SIL)	3 (In conjunction with suitable evaluating device)
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Safety data: EN IEC 62061

Safety Integrity Level (SIL)	3
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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)	-40 °C ... 80 °C
Maximum altitude	max. 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 (operation)	15g (In the event of stress caused by shock, contact reactions are possible for up to 6 ms)
Vibration (operation)	10 Hz ... 150 Hz, 2g (In the event of stress caused by vibration, contact reactions are possible for up to 1 ms.)

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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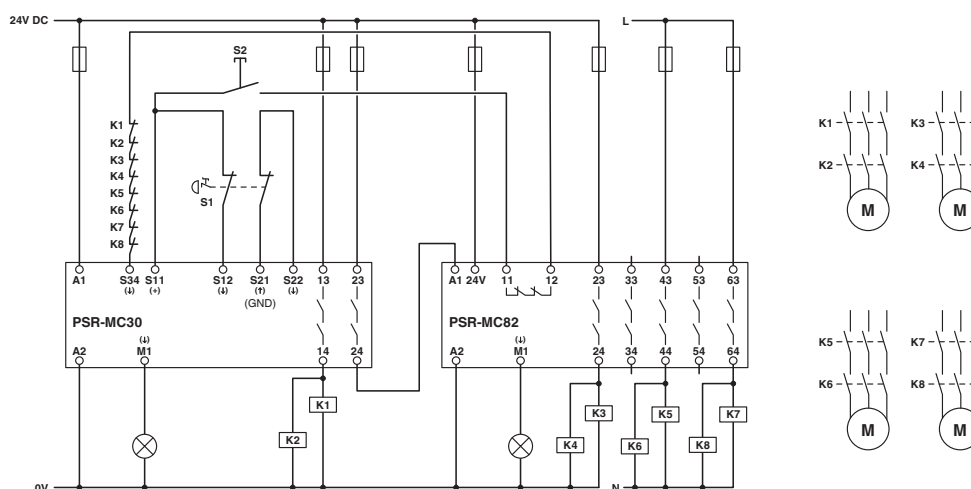


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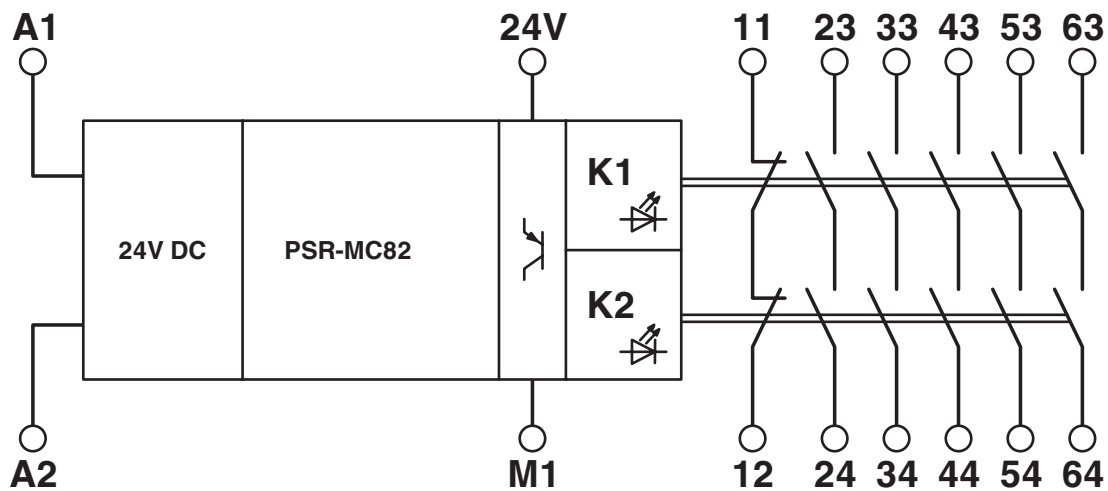
Drawings

Circuit diagram



Example application

Block diagram



Block diagram

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Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2702382>



Functional Safety

Approval ID: 4420515124303



Functional Safety

Approval ID: 44 78015124303



cULus Listed

Approval ID: E140324

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Classifications

ECLASS

ECLASS-13.0	27371819
ECLASS-15.0	27371819

ETIM

ETIM 9.0	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	5cc21dee-aeaf-4113-b01b-485afa7da360

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