

2963718

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Safety relay for emergency stop and safety door monitoring up to SIL 3 or Cat. 4, PL e in accordance with EN ISO 13849, 2-channel operation, 2 enabling current paths, nominal input voltage: 24 V DC, plug-in screw terminal block

Your advantages

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

Commercial data

Item number	2963718
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNA
Product key	DNA112
GTIN	4017918599379
Weight per piece (including packing)	192.61 g
Weight per piece (excluding packing)	192.1 g
Customs tariff number	85371098
Country of origin	DE



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Technical data

Notes

Note on application	Only for industrial use

Product properties

Product type	Safety relays
Product family	PSRclassic
Application	Emergency stop
	Safety door
Control	2-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	III
Degree of pollution	2

Electrical properties

Maximum power dissipation for nominal condition	16.44 W (U _S = 26.4 V, I_L^2 = 72 A ² , $P_{Total max}$ = 2.04 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

General

Rated control circuit supply voltage U _S	24 V DC -15 % / +10 %
Power consumption at U _S	typ. 1.68 W (DC)
Rated control supply current I _S	typ. 70 mA
Input voltage range in reference to U_N	0.85 1.1
Typical input current at U _N	70 mA DC
Inrush current	$< 3.5 \text{ A } (\Delta t = 3 \text{ ms at U}_s)$
	< 100 mA (Δt = 500 ms, with U _s /I _x at S12)
	$>$ -100 mA (Δt = 300 ms, with U _s /I _x at S22)
	< 6 mA (with U _s /I _x to S34)
Current consumption	typ. 38 mA (S12)
	typ38 mA (S22)
	typ. 1 mA (with U_s/I_x to S34)
Voltage at input/start and feedback circuit	approx. 24 V DC
Filter time	5 ms (at A1 in the event of voltage dips at $\rm U_s$)
	No test pulses permitted



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Typical response time	100 ms (Monitored/manual start)
Typical release time	20 ms (on demand via the sensor circuit)
	45 ms (on demand via A1)
Concurrence	α
Recovery time	1 s (following demand of the safety function)
	< 1 s (Boot time)
Protective circuit	Surge protection; Suppressor diode
Max. permissible overall conductor resistance	approx. 50 Ω (Input and start circuits at $\rm U_S^{})$
Operating voltage display	Green LED
Status display	LED (green)

Output data

Contact switching type	2 enabling current paths
	1 signaling current path
Contact material	AgSnO ₂ , + 0.2 μm Au
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	10 V AC/DC
Limiting continuous current	6 A (N/O contact)
Maximum inrush current	6 A
Inrush current, minimum	10 mA
Sq. Total current	72 A ² (Enabling current paths)
	36 A ² (Signaling current path 31/32)
Interrupting rating (ohmic load) max.	see load limit curve
Switching capacity min.	100 mW
Output fuse	10 A gL/gG (Enabling current paths)
	4 A gL/gG (Low-demand enabling current paths)
	6 A gL/gG (Signaling current path)

Connection data

Connection technology

pluggable	yes
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

Dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm



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Material specifications

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

Characteristics

Safety data

Stop category	^
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Safety data: EN ISO 13849

Category	4
Performance level (PL)	e (5 A DC13; 5 A AC15; 8760 switching cycles/year)

Safety data: IEC 61508 - High demand

Safety Integrity Level (SIL)	_	
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Safety data: IEC 61508 - Low demand

Safety Integrity Level (SIL)	3
daicty integrity Level (OIL)	J

Safety data: EN IEC 62061

Safety Integrity Level (SIL)	
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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

3

Approvals

CE

Identification	CE-compliant
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Mounting

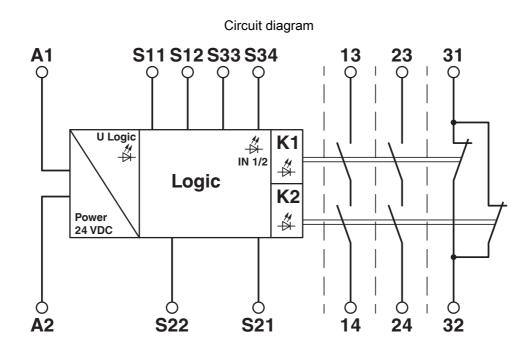
Mounting type	DIN rail mounting
Assembly note	See derating curve
Mounting position	vertical or horizontal



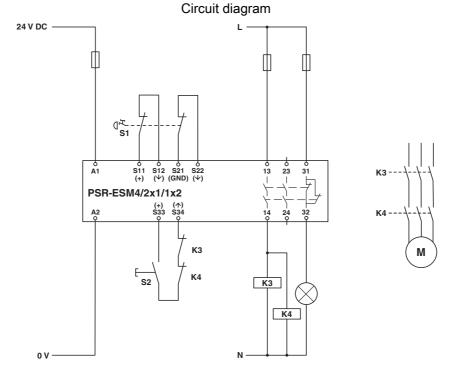
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Drawings



Block diagram



2-channel emergency stop monitoring



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Approvals

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cULus Listed

Approval ID: E140324



Functional Safety
Approval ID: 01/205/0652.05/22

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Classifications

ECLASS

	ECLASS-13.0	27371819
	ECLASS-15.0	27371819
	ECLASS-15.0 ASSET	27250101
ETIM		
	ETIM 9.0	EC001449
UNS	SPSC	

UNSPSC 21.0 39122205



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
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	8b9d065e-3f1b-476a-9eb4-02d9fddf6b7f



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Accessories

CP-MSTB - Coding profile

1734634

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Coding profile, is inserted into the slot on the plug or inverted header, red insulating material



CR-MSTB - Coding section

1734401

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Coding section, inserted into the recess in the header or the inverted plug, red insulating material $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right$





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CRIMPFOX 6 - Crimping pliers

1212034

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Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, $0.25~\text{mm}^2$... $6.0~\text{mm}^2$, lateral entry, trapezoidal crimp

PSR-ESS-M0-H110 - Actuator

1221757

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Actuator with anti-lock collar for modular emergency stop switches, for combination with module holder and contact module as a functional unit, panel installation, bayonet lock



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PSR-ESS-ACC-CB1-C3 - Module holder

1221747

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Module holder for modular emergency stop switches, connects the contact block and actuator with bayonet lock, suitable for 3 elements

PSR-ESS-ACC-CB1-NC-SC - Contact module

1221752

https://www.phoenixcontact.com/in/products/1221752



Contact module for modular emergency stop switches with force-guided N/C contact for safety-related shutdown, in conjunction with appropriate evaluation unit suitable for use up to PL e (EN ISO 13849-1), SIL 3 (EN IEC 62061)

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