

Safety relays - PSR-SCP- 24DC/ESD/5X1/1X2/300 - 2981428

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Safety relay for emergency stop and safety door monitoring up to SIL 3 or Cat. 4, PL e (EN ISO 13849), one- or two-channel operation, automatic or manual activation, 3 N/O contacts, 1 N/C contact, 2 N/O contacts with dropout delay of 0.2 s to 300 s, plug-in screw terminal block

Why buy this product

- ✓ Maximum of 3 undelayed and 2 dropout delay contacts
- ✓ Manually monitored and automatic activation
- ✓ Up to Cat. 3/4 and PL d/e according to ISO 13849-1, SILCL 3 according to IEC 62061, SIL 3 according to IEC 61508
- ✓ For emergency stop and safety door monitoring, plus evaluation of light grids
- ✓ Single and two-channel control
- ✓ Adjustable delay time of 0.2 s ... 300 s (24 increments)
- ✓ Protective labels to prevent manipulation of the set time (PSR-ESD-300) or electronic protection against manipulation (PSR-ESD-30)



Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 975227
GTIN	4017918975227
Weight per Piece (excluding packing)	430.000 g
Custom tariff number	85371099
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	45 mm
Height	99 mm

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Depth	114.5 mm
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Ambient conditions

Ambient temperature (operation)	-20 °C ... 55 °C (observe derating)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Max. permissible relative humidity (operation)	75 % (on average, 85% infrequently, non-condensing)
Max. permissible humidity (storage/transport)	75 % (on average, 85% infrequently, non-condensing)
Shock	15g
Vibration (operation)	10 Hz ... 150 Hz, 2g
Maximum altitude	≤ 2000 m (Above sea level)

Input data

Rated control circuit supply voltage U_s	24 V DC -15 % / +10 %
Power consumption at U_s	typ. 3.72 W
Rated control supply current I_s	typ. 155 mA
Inrush current	200 mA (at U_s)
Current consumption	< 40 mA (with U_s/I_x to S10)
	< 50 mA (with U_s/I_x to S12)
	> -40 mA (with U_s/I_x to S22)
	0 mA (with U_s/I_x to S34)
	< 5 mA (with U_s/I_x to S35)
Voltage at input/start and feedback circuit	24 V DC -15 % / +10 %
Typical response time	< 600 ms (automatic start)
	< 70 ms (manual start)
Typ. starting time with U_s	< 600 ms (when controlled via A1)
Typical release time	< 20 ms (when controlled via S11/S12 and S21/S22)
	< 20 ms (when controlled via A1)
Concurrence input 1/2	∞
Recovery time	< 1 s
Status display	4 x green LEDs
Maximum switching frequency	0.5 Hz
Max. permissible overall conductor resistance	approx. 22 Ω (Input and start circuits at U_s)
Filter time	1 ms (at A1 in the event of voltage dips at U_s)
	max. 1.5 ms (at S10, S12; test pulse width)
	7.5 ms (at S10, S12; test pulse rate)
	Test pulse rate = 5 x Test pulse width

Output data

Contact type	5 enabling current paths
	1 signaling current path
Contact material	AgSnO ₂
Minimum switching voltage	5 V AC/DC