

Safety relays - PSR-SCP- 24UC/ESA2/4X1/1X2/B - 2963802

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Safety relay for emergency stop and safety door up to SIL 1, SIL CL 1, Cat. 1, PL c, depending on the application up to SIL 3, SIL CL 3, Cat. 4, PL e, single-channel operation, 4 enabling current paths, $U_s = 24\text{ V AC/DC}$, plug-in screw terminal blocks

Why buy this product

- Up to Cat. 1/PL c according to ISO 13849-1, SILCL 1 according to IEC 62061, SIL 1 according to IEC 61508
- Depending on the application, up to Cat. 4/PL e according to ISO 13849-1, SILCL 3 according to IEC 62061, SIL 3 according to IEC 61508
- Basic insulation
- Single-channel control



Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 892661
GTIN	4017918892661
Weight per Piece (excluding packing)	217.700 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	22.5 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 65 °C (observe derating)
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Technical data

Ambient conditions

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 AC/DC -15 % / +10 %
Power consumption at U_s	typ. 3.36 W (AC)
	typ. 1.56 W (DC)
Rated control supply current I_s	typ. 140 mA AC
	typ. 65 mA DC
Inrush current	2 A ($\Delta t = 10$ ms at U_s)
Current consumption	< 50 mA (with U_s/I_x to S12)
	0 mA (with U_s/I_x to S34)
Voltage at input/start and feedback circuit	24 V DC -15 % / +10 %
Typical response time	< 65 ms (automatic start)
	< 40 ms (manual start)
Typ. starting time with U_s	< 65 ms (when controlled via A1)
Typical release time	< 45 ms (when controlled via S12)
	< 200 ms (when controlled via A1)
Recovery time	< 1 s
Status display	2 x green LEDs
Maximum switching frequency	1 Hz
Max. permissible overall conductor resistance	approx. 22 Ω (Input and start circuits at U_s)
Filter time	2 ms (at A1 in the event of voltage dips at U_s)
	max. 1.5 ms (at S12; test pulse width)
	7.5 ms (at S12; test pulse rate)
	Test pulse rate = 5 x Test pulse width

Output data

Contact type	4 enabling current paths
	1 signaling current path
Contact material	AgSnO ₂
Minimum switching voltage	5 V AC/DC
Maximum switching voltage	250 V AC/DC (Observe the load curve)
Limiting continuous current	6 A (N/O contact, pay attention to the derating)
	6 A (N/C contact)
Inrush current, minimum	10 mA
Maximum inrush current	20 A ($\Delta t \# 100$ ms)