

Safety relays - PSR-MC60-2NO-1DO-24DC-SC - 2700571

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Safety relay for two-hand control devices according to EN 574 type IIIA, up to SILCL 1, Cat. 1, PL c, synchronous activation monitoring < 0.5 s, 2 enabling current paths, $U_S = 24$ V DC, plug-in screw terminal block

Your advantages

- Up to Cat. 1/PL c according to ISO 13849-1, SILCL 1 according to IEC 62061
- Type IIIA according to EN 574
- Low housing width of just 12.5 mm
- 2 enabling current paths, 1 digital signal output
- Automatic activation



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 988353
GTIN	4046356988353
Weight per Piece (excluding packing)	147.300 g
Custom tariff number	85371098
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	12.5 mm
Height	112.2 mm
Depth	114.5 mm

Ambient conditions

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Ambient conditions

Ambient temperature (operation)	-35 °C ... 60 °C (observe derating)
Ambient temperature (storage/transport)	-40 °C ... 85 °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)
Maximum altitude	≤ 2000 m (Above sea level)

Power supply

Designation	A1/A2
Rated control circuit supply voltage U_s	24 V DC -20 % / +25 %
	19.2 V DC ... 30 V DC
Rated control supply current I_s	typ. 35 mA
Power consumption at U_s	typ. 0.9 W
Inrush current	typ. 20 A ($\Delta t = 10 \mu s$ at U_s)
Filter time	10 ms (For the logic. At A1 in the event of voltage dips at U_s)
Protective circuit	Surge protection Suppressor diode
	Protection against polarity reversal for rated control circuit supply voltage

Digital inputs

Input name	Sensor circuit
	S12, S22
Description of the input	safety-related sensor inputs
Number of inputs	2
Inrush current	< 5.5 mA (with U_s/I_x at S12)
	> -5.5 mA (with U_s/I_x to S22)
Current consumption	< 5.1 mA (with U_s/I_x at S12)
	> -5.1 mA (with U_s/I_x to S22)
Max. permissible overall conductor resistance	150 Ω
Concurrence input 1/2	< 0.5 s
	S35
Description of the input	non-safety-related
Number of inputs	1
Inrush current	< 5.5 mA (typically with U_s)
Current consumption	< 5.1 mA (typically with U_s)
Max. permissible overall conductor resistance	150 Ω

Relay outputs: enabling current path

Output name	Enabling current paths
	13/14, 23/24
Output description	safety-related N/O contacts
Number of outputs	2 (undelayed)
Contact type	2 enabling current paths
Contact material	AgSnO ₂ (enabling current path)