

## Safety relays - PSR-MC72-2NO-1DO-24DC-SC - 2702096

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Safety relay for emergency stop, safety doors, light grid up to SILCL 3, Cat. 4, PL e, 1- or 2-channel operation, cross-circuit detection, can be retriggered, fall back/tightening delay 0.2 s to 60 s, 2 enabling current paths,  $U_S = 24 \text{ V DC}$ , plug-in screw terminal block

### Your advantages

- ✓ Up to Cat.4/PL e according to ISO 13849-1, SILCL 3 according to IEC 62061
- ✓ Low housing width of just 12.5 mm
- ✓ Single and two-channel control
- ✓ 2 enabling current paths, 1 digital signal output
- ✓ Manually monitored and automatic activation in a single device



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 952484
GTIN	4046356952484
Weight per Piece (excluding packing)	108.980 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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## Technical data

### 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. 60 mA
Power consumption at $U_s$	typ. 1.44 W
Inrush current	typ. 25 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
Input voltage range "0" signal	0 V DC ... 5 V DC
Input current range "0" signal	0 mA ... 2 mA
Inrush current	< 11 mA (typically with $U_s$ )
Current consumption	< 4.1 mA (typically with $U_s$ )
Filter time	max. 3 ms (Test pulse width of low test pulses)
	min. 21 ms (Test pulse rate for low test pulse)
	Test pulse rate = 7 x Test pulse width
Max. permissible overall conductor resistance	150 $\Omega$
Concurrence input 1/2	$\infty$
Limit frequency	min. 0 Hz
	max. 1 Hz
Input name	Start circuit
	S34
Description of the input	non-safety-related
Number of inputs	1
Inrush current	< 8.6 mA (typically with $U_s$ )
Current consumption	< 3.2 mA (typically with $U_s$ )
Filter time	max. 3 ms (Test pulse width of low test pulses)
	min. 21 ms (Test pulse rate for low test pulse)