

Safety relays - PSR-MC32-3NO-1NC-24-230UC-SC - 2700524

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Safety relay for emergency stop, safety doors, and light grids up to SILCL 3, Cat. 4, PL e, 1 or 2-channel operation, automatic or manual, monitored start, 3 enabling current paths, 1 signaling current path, $U_s = 24 \dots 230 \text{ V AC/DC}$, plug-in screw terminal block

Your advantages

- Up to Cat.4/PL e according to ISO 13849-1, SILCL 3 according to IEC 62061
- One or two-channel activation
- 3 enabling current paths, 1 signaling current path
- Manually monitored and automatic activation in a single device
- Cross-circuit detection



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356912693
Weight per Piece (excluding packing)	243.800 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	22.5 mm
Height	112.2 mm
Depth	114.5 mm

Ambient conditions

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Ambient conditions

Ambient temperature (operation)	-40 °C ... 55 °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 AC/DC ... 230 V AC/DC -15 % / +10 %
Rated control supply current I_s	typ. 103 mA (24 V DC)
	typ. 47 mA (48 V DC)
	typ. 38 mA (110 V AC)
	typ. 21 mA (230 V AC)
Power consumption at U_s	2.7 W (with DC)
	2.9 W (with AC)
Apparent power	typ. 5 VA (at U_s)
Inrush current	< 80 A ($\Delta t = 50 \mu s$ at U_s)
Filter time	2 ms (at A1 in the event of voltage dips at U_s)
Protective circuit	U_s : surge protection 275 V varistor / 411 V suppressor diode

Digital inputs

Input name	Sensor circuit
	S10, S11, S12, S13, S21, S22
Description of the input	safety-related sensor inputs
Input voltage range "0" signal	0 V DC ... 5 V DC (for safe Off; at S10/S12/S13)
Input current range "0" signal	0 mA ... 2 mA (for safe Off; at S10/S12/S13)
Inrush current	< 5 mA (with U_s/I_x at S10/S12/S13)
	> -5 mA (with U_s/I_x to S22)
Current consumption	< 5 mA (with U_s/I_x at S10/S12/S13)
	> -5 mA (with U_s/I_x to S22)
Filter time	max. 1.5 ms (to S10-S12; test pulse width; at 24 V DC)
	7.5 ms (to S10-S12; test pulse rate; at 24 V DC)
	Test pulse rate = 5 x Test pulse width
Max. permissible overall conductor resistance	150 Ω
Concurrence input 1/2	∞
Type of protection	Inputs: protection against polarity reversal, surge protection
Protective circuit/component	38.6 V suppressor diode
Input name	Start circuit
	S34, S35
Description of the input	non-safety-related
	NPN