

Safety device - PSR-MM30-2NO-2DO-24DC-SP - 2702358


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Two-channel zero-speed and over-speed safety relays up to SIL 3, Cat. 4, PL e, 2 safe relay outputs, suitable for connecting HTL, TTL or sine/cosine encoders as well as proximity switches, plug-in spring-cage terminal block, width: 22.5 mm



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 133232
GTIN	4055626133232
Weight per Piece (excluding packing)	190.900 g
Sales Key	DNA242

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	117.5 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °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)
Maximum altitude	≤ 2000 m (Above sea level)

Power supply

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Technical data

Power supply

Designation	A1/A2
Rated control circuit supply voltage U_s	24 V DC -15 % / +10 %
Rated control supply current I_s	typ. 74 mA
Power consumption at U_s	typ. 1.78 W
Inrush current	< 18 A ($\Delta t = 500 \mu s$ at U_s)
Filter time	2 ms (at A1 in the event of voltage dips at U_s)
Protective circuit	Serial protection against polarity reversal 33 V suppressor diode

Digital inputs

Input name	Operating mode and monitoring inputs
Description of the input	NPN, IEC 61131-2, type 1
Number of inputs	1 (Non-safety-related start input: S34)
	3 (Safety-related operating mode inputs: I1, I2, I3)
	2 (Safety-related monitoring inputs: MI1, MI2)
Input voltage range "0" signal	0 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC
Input current range "0" signal	0 mA ... 1.5 mA
Inrush current	< 5 mA
Current consumption	typ. 4 mA (at U_s)
Filter time	max. 2 ms (Test pulse width; low test pulses for operating mode and monitoring inputs)
	Test pulse rate = 5 x Test pulse width
Max. permissible overall conductor resistance	150 Ω
Discrepancy time	2 s (I1, I2, I3)
	2.5 s (MI1, MI2)
Protective circuit/component	33 V suppressor diode

Measuring inputs

Input name	Proximity switch inputs
Description of the input	NPN, IEC 61131-2, type 1
Number of inputs	2 (Safety-related proximity switch inputs: IN1 IN2)
Precision	$\pm 2 \%$ (in reference to the parameterized limit value)
Inrush current	< 12 mA
Current consumption	typ. 10 mA (at U_s)
Input voltage range "0" signal	0 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC
Input current range "0" signal	0 mA ... 1.5 mA
Max. permissible overall conductor resistance	150 Ω
Limit frequency	max. 2 kHz (Minimum pulse duration: 2 μs)
Protective circuit	33 V suppressor diode
Input name	Encoder input
Description of the input	TTL, HTL, Sin/Cos