

# Coupling relay - PSR-PC32-2NO-1NC-24-230UC-SP - 2700582

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Coupling relay for SIL 3 high and low-demand applications, couples digital signals to the I/O, 24 V ... 230 V wide-range input, 2 enabling current paths (1x up to 60 V, 1x up to 250 V) 1 confirmation current path, safe state off applications, pluggable Push-in terminal block

The figure shows a version with a screw connection

## Your advantages

- ✓ Up to SIL 3 according to IEC 61508
- ✓ Forcibly guided contacts according to EN 50205
- ✓ Easy proof test according to IEC 61508
- ✓ Slim design
- ✓ Wide-range input
- ✓ Time saving push-in connection, tools not required
- ✓ Potentials can be easily looped through – ideal for BUS applications
- ✓ Intuitive use through colour coded actuation lever
- ✓ Can be combined with the MSTB 2,5 range
- ✓ Quick and convenient testing using integrated test option



## Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356916370
Weight per Piece (excluding packing)	226.500 g
Custom tariff number	85364900
Country of origin	Germany

## Technical data

Note

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## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

Width	17.5 mm
Height	117.4 mm
Depth	114.5 mm

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °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

Rated control circuit supply voltage $U_s$	24 V AC/DC ... 230 V AC/DC -15 % ... +10 %
Rated control supply current $I_s$	75 mA (24 V DC)
	34 mA (48 V DC)
	97 mA (42 V AC)
	28 mA (120 V AC)
	16 mA (230 V AC)
Power consumption at $U_s$	1.8 W (with DC)
	2.1 W (with AC)
Apparent power	typ. 4.1 VA
Inrush current	typ. 16 A ( $\Delta t < 100 \mu s$ at $U_s$ )
	< 5 mA (at terminal blocks 24V/GND at $U_D$ )
Filter time	10 ms (24 V DC, A1 in the event of voltage dips at $U_s$ )
	max. 1.5 ms (at A1-A2; test pulse width; at 24 V DC)
	7.5 ms (at A1-A2; test pulse rate; at 24 V DC)
	Test pulse rate = 5 x Test pulse width
Diagnostic supply voltage $U_D$	24 V DC -15 % / +10 %
Input current at $U_D$	< 5 mA (at terminal blocks 24V/GND at $U_D$ )
Protective circuit	$U_s$ : surge protection Varistor 275 V
	$U_D$ : surge protection 33 V suppressor diode
	$U_D$ : Polarity protection

### Relay outputs: enabling current path

Output name	Enabling current path
Output description	safety-related N/O contacts
Number of outputs	2 (undelayed)
Contact type	2 enabling current paths
Contact material	AgSnO <sub>2</sub>