Coupling relay - PSR-PC40-2NO-1DO-24DC-SP - 2700589

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The figure shows a version with a screw connection

Coupling relay for SIL 3 high and low-demand applications, couples digital output signals to the I/O, 2 enabling current paths, 1 digital signal output, safe state off applications, test pulse filter, pluggable Push-in terminal block

Your advantages

- Up to SIL 3 according to IEC 61508
- Forcibly guided contacts according to EN 50205
- Easy proof test according to IEC 61508 thanks to integrated signal contact
- Approved for Class I, Zone 2 applications
- Low housing width of just 12.5 mm
- Self-regulation with device-internal lock
- Manually monitored and automatic activation in a single device
- Long service life thanks to filtering of controller test pulses
- 2 enabling current paths, 1 digital signal output
- Couples digital output signals from failsafe controllers to I/O devices (valves, etc.) for electrical isolation and power adaptation
- 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	4 046356 916141
GTIN	4046356916141
Weight per Piece (excluding packing)	196.000 g
Custom tariff number	85364900
Country of origin	Germany

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Technical data

Note

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

Dimensions

Width	12.5 mm
Height	116.6 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 DC -15 % / +10 % (A1/A2)
	20.4 V DC ... 26.4 V DC
Rated control supply current I_S	typ. 75 mA (depending on load M1 +100 mA)
Power consumption at U_S	typ. 1.8 W
Inrush current	typ. 400 mA (Δt < 100 µs at U_s)
Filter time	max. 2 ms (at A1-A2; test pulse width)
	≥ 100 ms (at A1-A2; test pulse rate)
Protective circuit	Serial protection against polarity reversal 33 V suppressor diode

Digital inputs

Input name	Start circuit
Number of inputs	2 (Non-safety-related start inputs: Y1/Y2)
Inrush current	< 10 mA
Current consumption	< 5 mA
Voltage at input/start and feedback circuit	24 V DC -15 % / +10 %
Max. permissible overall conductor resistance	150 Ω

Relay outputs: enabling current path

Output name	Enabling current path
Output description	2 NO contacts each in series, without delay, floating
Number of outputs	2 (safety-related N/O contacts: 13/14, 23/24)
Contact type	2 enabling current paths
Contact material	$AgSnO_2$
Switching voltage	min. 12 V AC/DC
	max. 250 V AC/DC (Observe the load curve)
Limiting continuous current	6 A (High demand)
	4 A (Low demand)