

Coupling relay - PSR-SPP- 24DC/ETP/1X1 - 2986562

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Coupling relay for SIL 3 low-demand applications, couples digital output signals to the I/O, 1 enabling current path, module for F&G applications, test pulse filter, plug-in spring-cage terminal block, width: 17.5 mm

Why buy this product

- Narrow 17.5 mm housing
- Up to SIL 3 according to IEC 61508
- Long service life thanks to filtering of controller test pulses
- One enabling current path
- Couples digital output signals from failsafe controllers to I/O devices (valves, etc.) for electrical isolation and power adaptation



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 540780
Weight per Piece (excluding packing)	191.7 g
Custom tariff number	85364900
Country of origin	Germany
Note	Made to Order (non-returnable)

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	112 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 55 °C
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Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 65 °C
Max. permissible humidity (storage/transport)	≤ 85 % (Condensation and icing are not permitted based on the average annual temperature)
	≤ 85 % (On an individual basis, condensation and icing are not permitted)
Shock	15g
Vibration (operation)	2g
Maximum altitude	≤ 2000 m (Above sea level)

Input data

Nominal input voltage U_N	24 V DC
Input voltage range	20.4 V DC ... 26.4 V DC
Input voltage range in reference to U_N	0.85 ... 1.1
Typical input current at U_N	75 mA
Typical inrush current	200 mA
Typical response time	30 ms
Recovery time	1 s

Output data

Contact type	1 enabling current path
Contact material	AgNi, gold-flashed
Minimum switching voltage	15 V AC/DC
Maximum switching voltage	250 V AC (125 V DC)
Limiting continuous current	5 A (N/O contact, pay attention to the derating)
Inrush current, minimum	100 mA
Maximum inrush current	5 A
Sq. Total current	$25 A^2 (I_{TH2} = I_{12} + \dots + I_{N2})$
Switching capacity min.	1.5 W

General

Relay type	Electromechanical relay with forcibly guided contacts in accordance with EN 50205
Mechanical service life	Approx. 10^7 cycles
Net weight	191.7 g
Mounting type	DIN rail mounting
Assembly instructions	In rows with zero spacing
Degree of protection	IP54
	IP20
Min. degree of protection of inst. location	IP54
Mounting position	optional (Observe derating)
Control	single-channel

Connection data

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Connection data

Connection method	Spring-cage connection
pluggable	Yes
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	16
Stripping length	8 mm

Standards and Regulations

Shock	15g
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated insulation voltage	250 V AC
Rated surge voltage/insulation	6 kV/safe isolation (through protective impedance)
Degree of pollution	2
Overvoltage category	III
Vibration (operation)	2g
UL, USA / Canada	UL applied for

Classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371901
eCl@ss 5.1	27371901
eCl@ss 6.0	27371819
eCl@ss 7.0	27371819
eCl@ss 8.0	27371819

ETIM

ETIM 2.0	EC001449
ETIM 3.0	EC001449
ETIM 4.0	EC001449
ETIM 5.0	EC001449

UNSPSC

UNSPSC 6.01	30211901
UNSPSC 7.0901	39121501
UNSPSC 11	39121501

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Classifications

UNSPSC

UNSPSC 12.01	39121501
UNSPSC 13.2	39121501

Approvals

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Functional Safety / Functional Safety

Ex Approvals

Approvals submitted

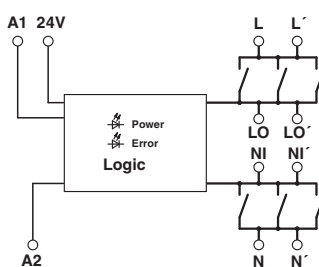
Approval details

Functional Safety

Functional Safety

Drawings

Circuit diagram



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Circuit diagram

