

PSR-SCP- 24DC/FSP/1X1/1X2


Order No.: 2981978



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Coupling relay for SIL 3 high/low demand applications, couples digital output signals to the periphery, 1 enabling current path, 1 signal contact, module for safe state off applications, test pulse filter, fuse, plug-in screw connection, 17.5 mm width



Commercial data	
EAN	 4 046356 448352
sales group	G501
Pack	1 Pcs.
Customs tariff	85364900
Gross weight in pieces	0.1916 KG
Net weight per piece	0.1884 KG
Catalog page information	Page 91 (C-8-2013)

Product notes

WEEE/RoHS-compliant since:
03/25/2009



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Technical data

Dimensions	
Width	17.5 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Max. permissible humidity (storage/transport)	≤ 75 % (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

Input data

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.85 ... 1.1
Typical input current at U_N	55 mA
Typical inrush current	100 mA
Typical response time	50 ms
Typical release time	50 ms
Recovery time	1 s

Output data

Contact type	1 undelayed enabling current path
	1 undelayed confirmation current path
Contact material	AgCuNi, + 0.2 µm Au
Minimum switching voltage	15 V AC/DC
Maximum switching voltage	250 V AC/DC
Limiting continuous current	5 A (N/O contact, pay attention to the derating)
	100 mA (N/C contact)
Inrush current, minimum	5 mA
Maximum inrush current	5 A
Sq. Total current	25 A ² (observe derating)
Interrupting rating (ohmic load) max.	120 W (24 V DC, τ = 0 ms, N/C contact: 2.4 W)
	144 W (48 V DC, τ = 0 ms, N/C contact: 4.8 W)
	66 W (110 V DC, τ = 0 ms, N/C contact: 11 W)
	60 W (220 V DC, τ = 0 ms, N/C contact: 22 W)
	1250 VA (250 V AC, τ = 0 ms, N/C contact: 25 VA)

Maximum interrupting rating (inductive load)	72 W (24 V DC, $\tau = 40$ ms, N/C contact: 2.4 W)
	36 W (48 V DC, $\tau = 40$ ms, N/C contact: 4.8 W)
	36 W (110 V DC, $\tau = 40$ ms, N/C contact: 11 W)
	48 W (220 V DC, $\tau = 40$ ms, N/C contact: 22 W)
Switching capacity min.	75 mW
Output fuse	5 A T (Fuse)

General

Relay type	Electromechanically forcibly guided, dust-proof relay.
Mechanical service life	Approx. 10^7 cycles
Mounting type	DIN rail mounting
Assembly instructions	In rows with zero spacing
Degree of protection	IP20
Min. degree of protection of inst. location	IP54
Mounting position	any
Category according to EN 13849-1	4
Stop category	0
Designation	Air and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated surge voltage / insulation	6 kV / Safe isolation, increased insulation
Rated insulation voltage	250 V AC
Pollution degree	2
Surge voltage category	III

Connection data

Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	7 mm
Screw thread	M3
Connection method	Screw connection

Certificates / Approvals



Certification

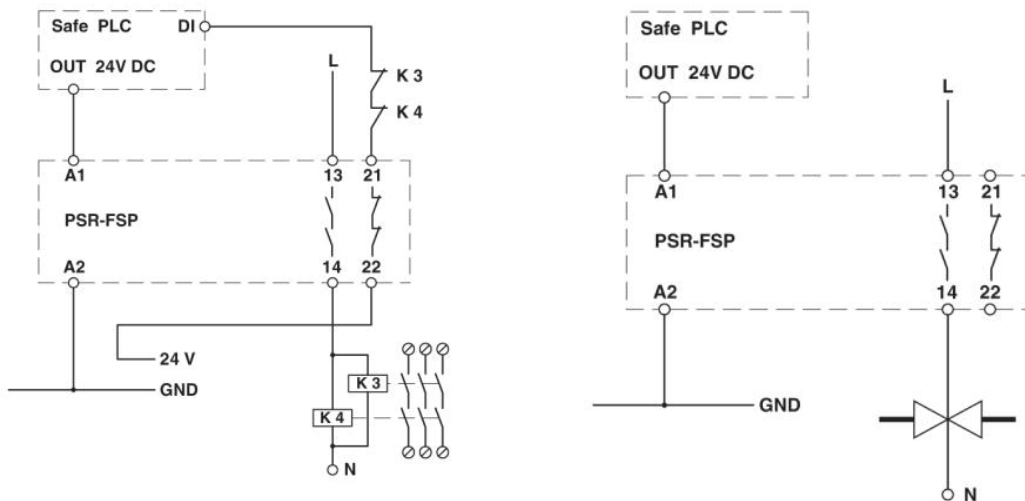
cULus Listed, Functional Safety

Certifications applied for:

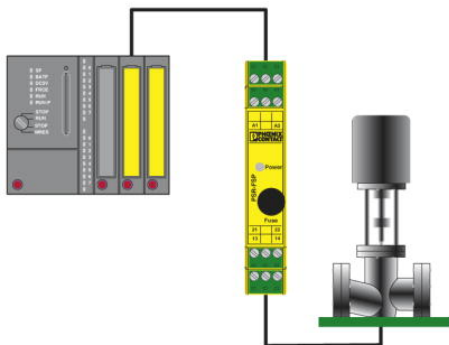
Certification Ex:

Drawings

Connection diagram

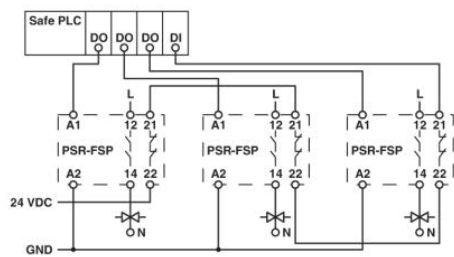
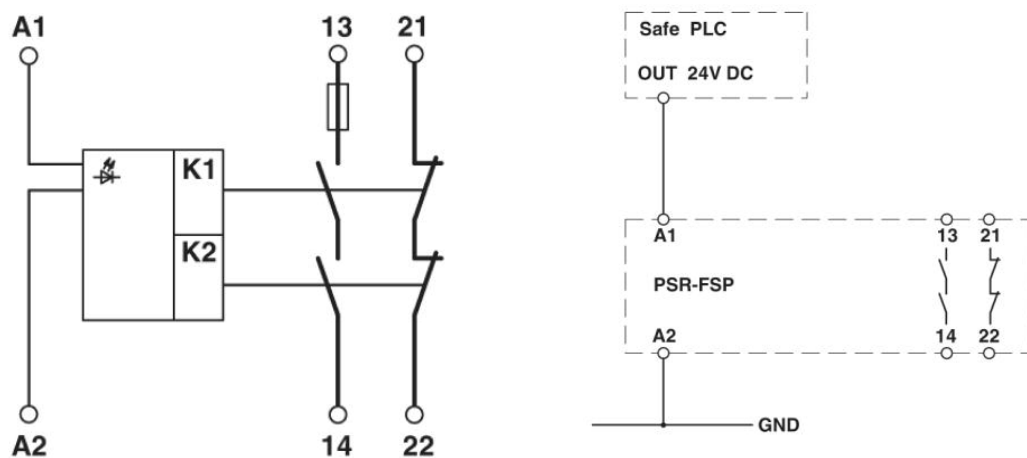


Application drawing



Example of electrical isolation of a safety PLC output from the field.

Circuit diagram



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