

PSR-SPP- 24DC/ESD/4X1/30

Order No.: 2981813



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Safety relay for emergency stop and safety door monitoring up to SIL 3 or Cat.4, PL e according to EN ISO 13849, automatic or manual activation, 2 N/O contacts dropout delayed from 0.1 s to 30 s, plug-in spring-cage connection terminal blocks



Commercial data

EAN	 4 046356 117265
sales group	G520
Pack	1 Pcs.
Customs tariff	85371099
Gross weight in pieces	0.2316 KG
Net weight per piece	0.2013 KG
Catalog page information	Page 73 (C-8-2013)

Product notes

WEEE/RoHS-compliant since:
04/17/2008



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Technical data

Dimensions

Width	22.5 mm
Height	112 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 45 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Max. permissible relative humidity (operation)	75 %
Max. permissible humidity (storage/transport)	75 %

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	75 mA DC
Voltage at input/start and feedback circuit	approx. 24 V DC
Typical response time	150 ms (Monitored/manual and auto-start)
Typical release time	20 ms (undelayed contacts) 100 ms (delayed contacts)
Typical release time range	0.1 s ... 30 s
Recovery time	330 ms (Restart) 1 s (Electric torque)
Status display	LED K1/K2 and K3(t)/K4(t), green
Max. permissible overall conductor resistance	50 Ω (Input and reset circuit at U_N)

Output data

Contact type	2 undelayed enabling current paths 2 enabling current paths delayed
Contact material	AgSnO ₂
Minimum switching voltage	15 V AC/DC
Maximum switching voltage	250 V AC/DC
Limiting continuous current	6 A (N/O contact)
Inrush current, minimum	25 mA
Maximum inrush current	6 A
Sq. Total current	120 A ² (see to derating)
Interrupting rating (ohmic load) max.	144 W (24 V DC, $\tau = 0$ ms) 288 W (48 V DC, $\tau = 0$ ms) 90 W (110 V DC, $\tau = 0$ ms) 88 W (220 V DC, $\tau = 0$ ms) 1500 VA (250 V AC, $\tau = 0$ ms)

Maximum interrupting rating (inductive load)	42 W (24 V DC, $\tau = 40$ ms)
	33 W (48 V DC, $\tau = 40$ ms)
	25 W (110 V DC, $\tau = 40$ ms)
	23 W (220 V DC, $\tau = 40$ ms)
Switching capacity min.	0.4 W
Output fuse	10 A gL/gG NEOZED (N/O contact)

General

Relay type	Electromechanically forcibly guided, dust-proof relay.
Mechanical service life	Approx. 10^7 cycles
Mounting type	DIN rail mounting
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 (undelayed contacts)
	1 (delayed contacts)
Designation	Air and creepage distances between the power circuits
Standards/regulations	DIN EN 60947-1
Rated surge voltage / insulation	4 kV / basic insulation
Rated insulation voltage	250 V
Pollution degree	2
Surge voltage category	II

Connection data

Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	1.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	16
Stripping length	8 mm
Connection method	Spring-cage connection

Certificates / Approvals



Certification

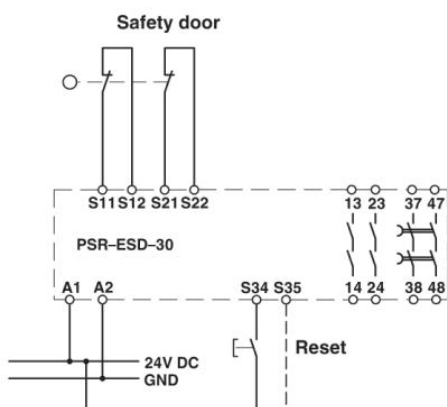
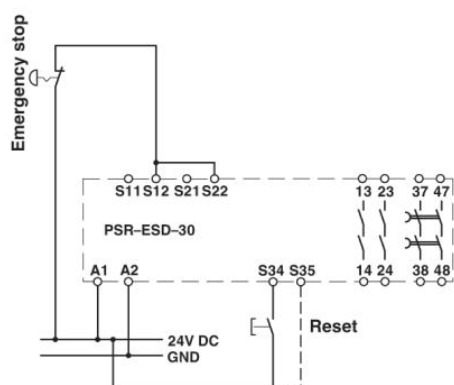
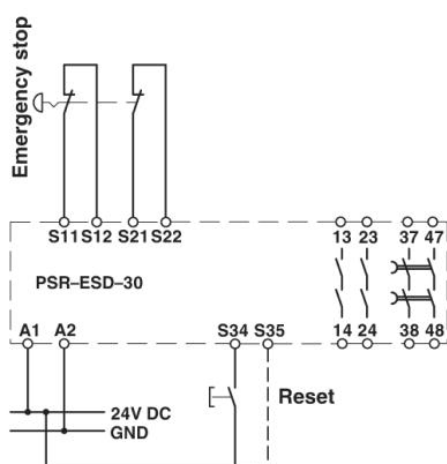
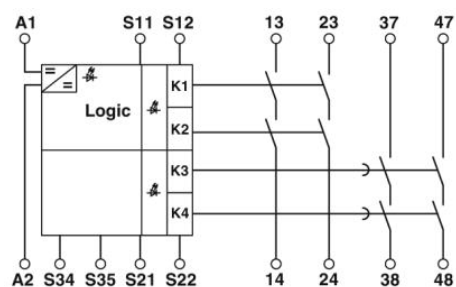
cULus Listed, GOST, Functional Safety

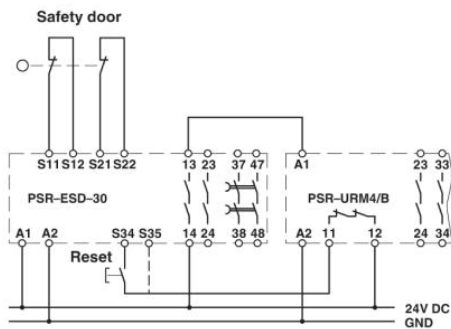
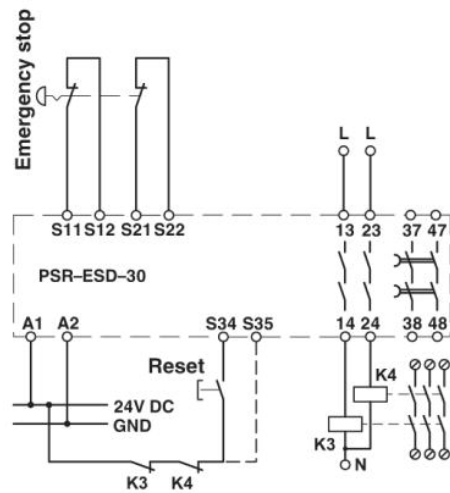
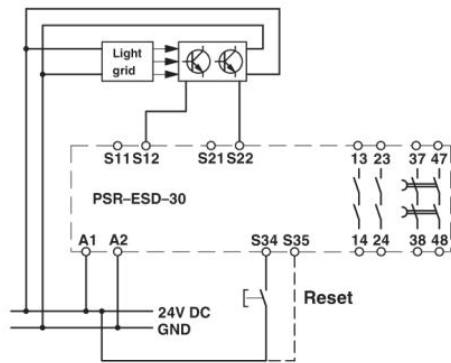
Certifications applied for:

Certification Ex:

Drawings

Circuit diagram





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