

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

Order No.: 2981813

The figure shows a version with a screw connection




<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2981813>

Safety relay to emergency stop and safety door monitoring up to SIL 3 or Cat. 4, PL e according to EN ISO 13849, one- or two-channel operation, automatic or manual activation, 2 N/O contact switch-off delay from 0.1 s to 30 s



Commercial data

GTIN (EAN)	 4 046356 117265
sales group	G520
Pack	1 pcs.
Customs tariff	85364190
Catalog page information	Page 14 (IF-2011)

Product notes

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



<http://www.download.phoenixcontact.com>
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Technical data

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)
Max. permissible overall conductor resistance	50 Ω (Input and reset circuit at U _N)

Output data

Contact type	2 enabling current paths undelayed, 2 delayed
Contact material	AgSnO ₂
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	15 V AC/DC
Limiting continuous current	6 A (N/O contact)
Maximum inrush current	6 A
Inrush current, minimum	25 mA
Interrupting rating (ohmic load) max.	144 W (24 V DC, τ = 0 ms) 288 W (48 V DC, τ = 0 ms) 90 W (110 V DC, τ = 0 ms) 88 W (220 V DC, τ = 0 ms) 1500 VA (250 V AC, τ = 0 ms)
Maximum interrupting rating (inductive load)	42 W (24 V DC, τ = 40 ms) 33 W (48 V DC, τ = 40 ms) 25 W (110 V DC, τ = 40 ms) 23 W (220 V DC, τ = 40 ms)
Switching capacity min.	0.4 W
Output fuse	10 A gL/gG NEOZED (N/O contact)

General data

Width	22.5 mm
Height	112 mm
Depth	114.5 mm
Ambient temperature (operation)	-20 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relay type	Electromechanically forcibly guided, dust-proof relay.

Mechanical service life	Approx. 10 ⁷ cycles
Mounting position	Any
Category in acc. with EN 954-1	4
Stop category	0 (undelayed contacts) 1 (delayed contacts)
Name	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 conn.

Certificates / Approvals

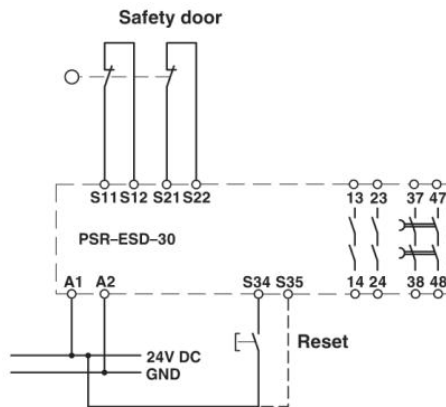
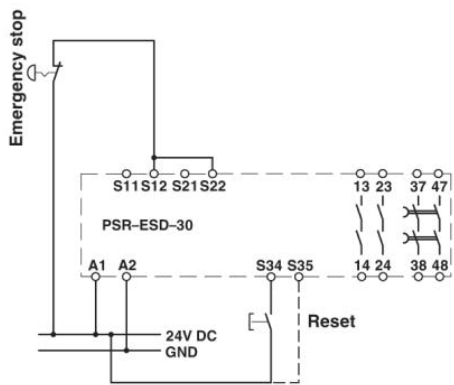
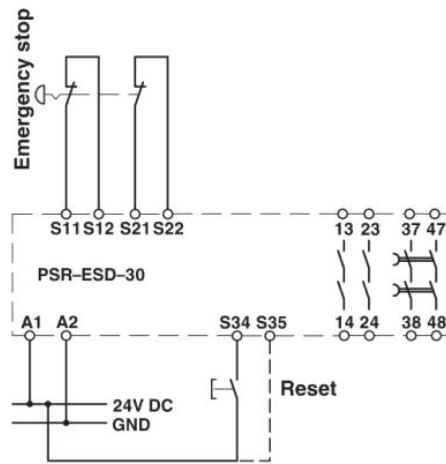
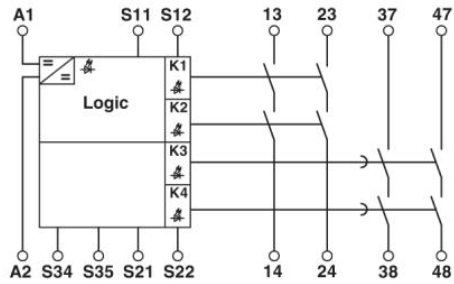


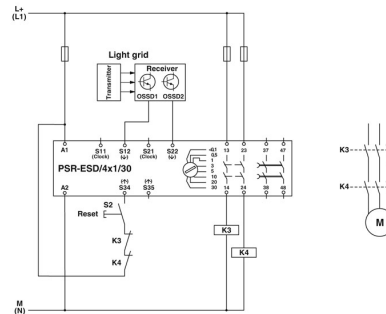
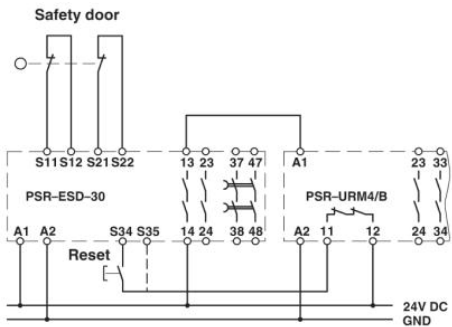
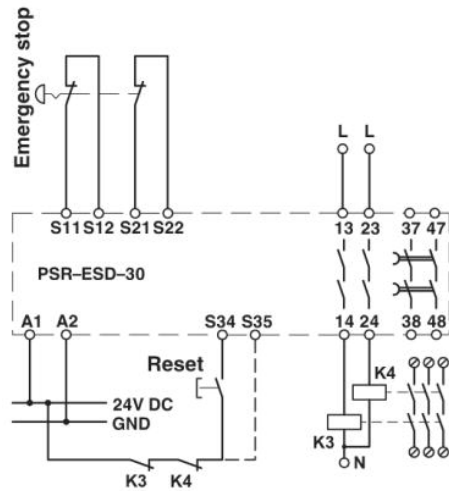
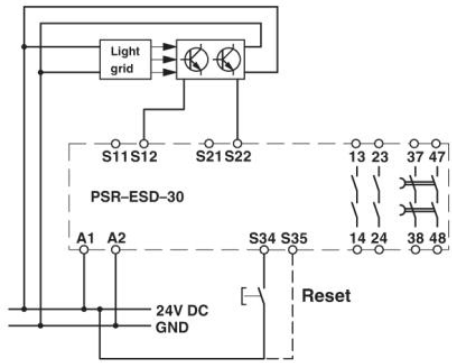
Certification CUL Listed, GOST, UL Listed

Certifications applied for: TUEV-RH

Diagrams/Drawings

Circuit diagram





Two-channel light grid monitoring
to PLe according to EN ISO 13849-1

Address

PHOENIX CONTACT Inc., USA
586 Fulling Mill Road
Middletown, PA 17057, USA
Phone (800) 888-7388
Fax (717) 944-1625
<http://www.phoenixcon.com>



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