Extract from the online catalog

PSR-SCP- 24UC/ESL4/3X1/1X2/B

Order No.: 2981059

http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2981059

Safety relay to emergency stop and safety door and light grid monitoring up to SIL 3 or Cat. 4, PL e according to EN ISO 13849, one- or two-channel operation, automatically or manually supervised activation, 3 enabling current paths, nominal input voltage 230 V AC/DC

Product notes

WEEE/RoHS-compliant since: 08/08/2006

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Commercial data

GTIN (EAN)	4 017918 927202
sales group	G512
Pack	1 pcs.
Customs tariff	85364900
Catalog page information	Page 16 (IF-2011)

Technical data

Input data

Nominal input voltage U_N	24 V AC/DC
Input voltage range in reference to U_N	0.85 ... 1.1

Typical input current at U_N	150 mA AC
	70 mA DC
Voltage at input/start and feedback circuit	Approx. 24 V DC
Typical response time	25 ms (manual start)
	100 ms (automatic start)
Typical release time	10 ms
Concurrence input 1/2	Infinite
Recovery time	1 s

Output data

Contact type	3 enabling current paths, 1 signaling current path
Contact material	$AgSnO_2$, + 0.2 µm Au
Maximum switching voltage	250 V
Minimum switching voltage	15 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	6 A
Inrush current, minimum	25 mA
Sq. Total current	72 A^2 ($I_{TH}^2 = I_1^2 + I_2^2 + I_3^2$)
Interrupting rating (ohmic load) max.	144 W (24 V DC, τ = 0 ms)
	288 W (48 V DC, τ = 0 ms)
	77 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)	48 W (24 V DC, τ = 40 ms)
	40 W (48 V DC, τ = 40 ms)
	35 W (110 V DC, τ = 40 ms)
	33 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	99 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
Name	Air and creepage distances between the power circuits
Standards/regulations	DIN EN 50178/VDE 0160
Rated surge voltage / insulation	4 kV / Basic isolation, (safe isolation, reinforced insulation and 6 kV between input circuit and enabling current paths.)
Rated insulation voltage	250 V
Pollution degree	2
Surge voltage category	III

Connection data

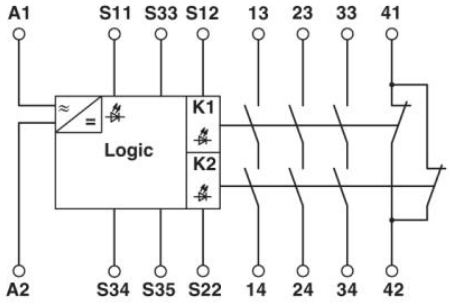
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	7 mm
Screw thread	M3
Connection method	Screw connection

Certificates / Approvals

Certification	CUL Listed, GOST, TUEV-RH, UL Listed

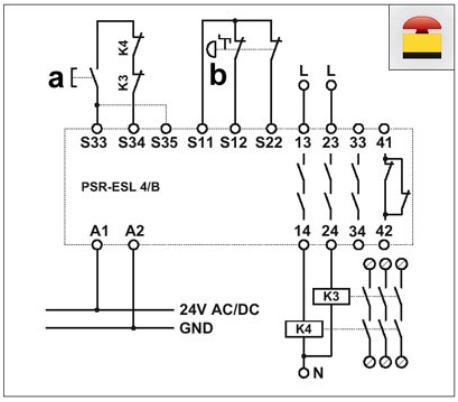
Diagrams/Drawings

Circuit diagram

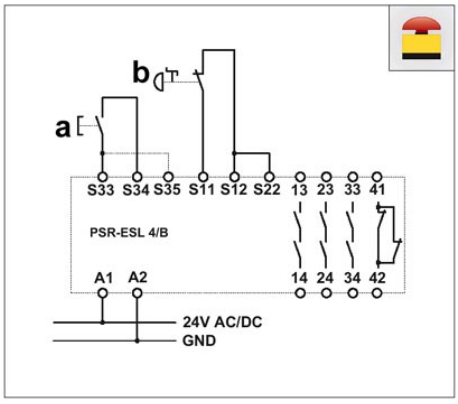


a = RESET
b = light barrier
Two-channel light barrier monitoring with cross-circuiting monitoring and manual activation (automatic activation: Bridge on S33/S35), suitable up to safety category 4.

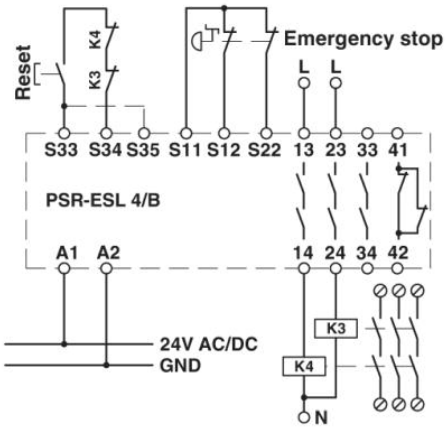
1 = logics

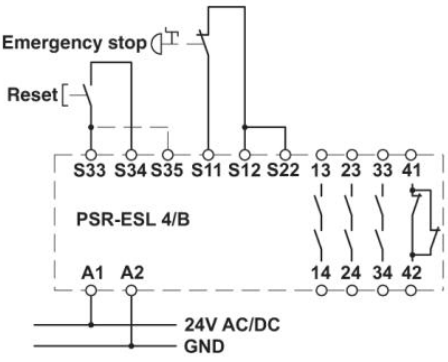


a = RESET
b = Emergency stop
Two-channel emergency-stop circuit with manual activation and monitored contact expansion (automatic activation: Bridge on S33/S35), suitable up to safety category 3.



a = RESET
b = Emergency stop
One-channel emergency-stop circuit with manual activation (automatic activation: Bridge on S33/S35), suitable up to safety category 2.





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