Extract from the online catalog

PSR-SCP- 24UC/ESAM4/8X1/1X2

Order No.: 2963912

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1 or 2-channel safety relay for emergency off and safety door circuits, 8 N/O contacts, 1 N/C contact, undelayed, optionally with start button monitoring or automatic start for category 4 / EN 954-1, optionally with or without cross-circuit monitoring

Product notes

WEEE/RoHS-compliant since: 10/31/2006

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Commercial data	
EAN	4017918899707
Pack	1 Pcs.
Customs tariff	85364900
Weight/Piece	0.4936 KG
Catalog page information	Page 22 (IF-2007)

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	210 mA AC
	120 mA DC
Voltage at input/start and feedback circuit	Approx. 24 V DC
Typical response time	60 ms (manual start)
	250 ms (automatic start)
Typical release time	20 ms
Concurrence input 1/2	Infinite
Recovery time	1 s
Max. permissible overall conductor resistance	Approx. 11 Ω (Input and start circuits at U_N)

Output data

Contact type	8 enabling current paths, 1 signaling current path
Contact material	$AgSnO_2$, + 0.2 µm Au
Maximum switching voltage	250 V AC/DC
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	50 A^2 ($I_{TH}^2 = I_1^2 + I_2^2 + ... + I_8^2$)
Interrupting rating (ohmic load) max.	144 W (24 V DC, τ = 0 ms)
	288 W (48 V DC, τ = 0 ms)
	110 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)
	42 W (48 V DC, τ = 40 ms)
	42 W (110 V DC, τ = 40 ms)
	42 W (220 V DC, τ = 40 ms)
Switching capacity min.	0.4 W
Output fuse	6 A fast blow
	4 A circuit-breaker C

General data

Length	99 mm
Width	45 mm
Height	114.5 mm

Ambient temperature (operation)	-20 °C ... 55 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Service life mechanical	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 insulation (safe isolation, increased insulation and 6 kV between input circuit and output contact current paths **(63/64, 73/74, 83/84)** and between the output contact current paths **(63/64, 73/74, 83/84)** themselves.)
Rated insulation voltage	250 V
Pollution degree	2
Surge voltage category	III

Connection data

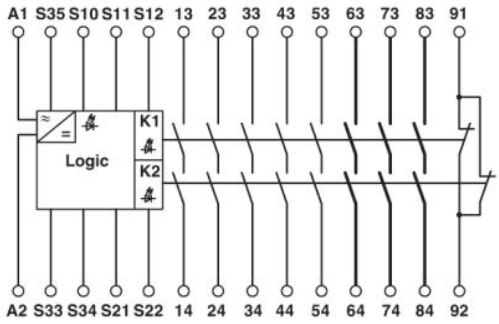
Conductor cross section solid min.	0.2 mm^2
Conductor cross section solid max.	2.5 mm^2
Conductor cross section stranded min.	0.2 mm^2
Conductor cross section stranded max.	2.5 mm^2
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	7 mm
Screw thread	M3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

Certificates / Approvals

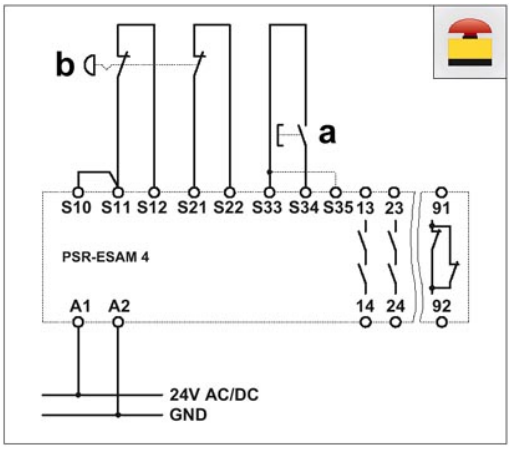
Certification	BG, CUL Listed, GOST, UL Listed
Certifications applied for:	BG

Drawings

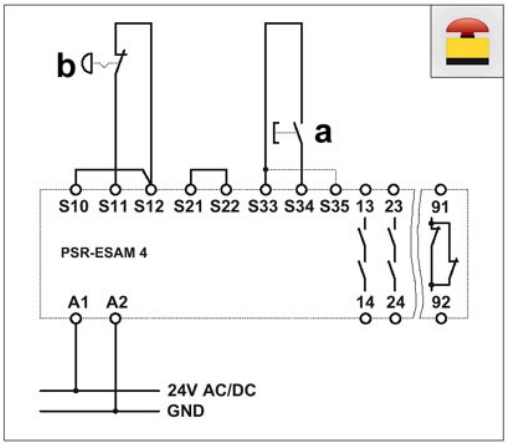
Circuit diagram



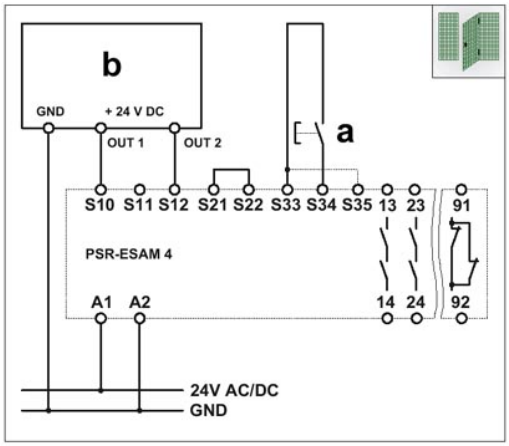
1 = logics



a = RESET
b = Emergency stop
Two-channel emergency stop circuit with cross-circuiting detection and monitored reset button, suitable up to safety category 4.



a = RESET
b = Emergency stop
Two-channel emergency stop circuit with monitored reset button (bridge on S33/S35: Automatic activation), suitable up to safety category 2.



a = RESET
b = semiconductor input
Two-channel limit switch monitoring with semiconductor output and monitored reset button (automatic activation: Bridge S33/S35), suitable up to safety category 4 depending on the limit switch.