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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SR101A





SRIOIA Single-Channel Safety Monitoring Relay

- Power requirements—the SR101A will accept 24 VAC/DC, 115 VAC, or 230 VAC
- Inputs—a single N/C input channel, not monitored, is provided
- Outputs—the SR101A has two N/O outputs to route power to the coils of power contactors
- External Device Monitoring (EDM) is provided with a N/C loop between S11 and S21 on the SR101A
- Reset mode—an automatic reset mode is provided with the SR101A



Go to the Engineering Guide For in-depth information on safety standards and use.



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UK Tel. +44 (0) 1395-273-209 Europe Tel. +49 (0) 5258-938-776 Japan Tel. +81-466-22-1132 China Tel. +86-21-5836-7708 Singapore Tel. +65-648-44-001

Application



For a full explanation of the circuit operating principle and fault detection, see "Common Circuit Examples" in the Engineering Section of this catalog.

Output Contact Arrangements



Terminal Connections



Terminal Pin Assignments

\bigcirc	S11		A1	\otimes
\otimes	14		13	\otimes
\otimes	24		23	\otimes
\otimes	A2		S21	\otimes



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Block Diagram



Dimensions — mm/in.

SR101A



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safety monitoring relays

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Specifications

Electrical	All Models	SR101A01	SR101A02	SR101A03		
Power Supply:	±10%, 50-60 Hz	24 VAC/DC	115 VAC	230 VAC		
Power Consumption:	Approx. 1 VA	Approx. 1 VA				
Safety Inputs:	puts: 1 N/C (not monitored)					
Outputs:	2 N/O					
Output Rating AC:	Inductive AC-15, 4 A/230 V					
Output Rating DC:	Inductive DC-13, 2 A/24 V					
Min Switched Current/Voltage:	20 mA/24 V					
Impulse Withstand Voltage:	mpulse Withstand Voltage: 2500 V					
Max Drop-Out Time:	me: 75 ms					
Max Output Fuse:	6 A quick-acting fuse or 4 A slow-acting					
Reset Mode:	Automatic (S11-S21)					
Contactor Monitoring:	N/C loop S11-S21					
Mechanical						
Mounting:	ng: 35 mm (1.38 in.) DIN rail					
Case Material:	Fiber-filled Polyamide PA6.6					
Max Wire Size:	1 x 2.5 mm (14 AWG) stranded					
Weight:	230 g (8.1 oz.)					
Color:	Red					
External Switches:						
Indication:	K2 Closed					
Mechanical Life: 1 x 10 ⁷ operations						
Environmental						
Enclosure Protection:	IP20 terminals, IP40 (NEMA 1) housing					
Operating Temperature:	24 VAC/DC: -15 to 60°C (5 to 140°F)					
	115/230 VAC: -15 to 40°C (-5 to 104°F)					
Humidity:	93% RH at 104°C (219°F)					
Compliance						
Standards:	EN 60204-1: 1998, EN 954-	N 60204-1: 1998, EN 954-1: 1996, VDE 0113 Part 1: 1998-11				
Approvals/Listings:	CE marked for all applicable directives, BG, UL and C-UL					
Safety Category:	Cat. 3 per EN954-1 (SR101	nternal operation)				

Specifications are subject to change without notice.

Note: The safety contacts of the STI switches are described as normally closed (N/C)—i.e., with the guard closed, actuator in place, and the machine able to be started.

Ordering

Model	Supply	Inputs	Outputs	Part No.
SR101A01	24 VAC/DC	1 N/C	2 N/O	44510-1011
SR101A02	115 VAC	1 N/C	2 N/O	44510-1012
SR101A03	230 VAC*	1 N/C	2 N/O	44510-1013

*230 VAC units are available on special order. Minimum quantities may apply.



