



Conforms to EN574 Cat. IIIC, EN60204-1, EN954-1, VDE 0113-1
UL and C-UL listed, BG approved

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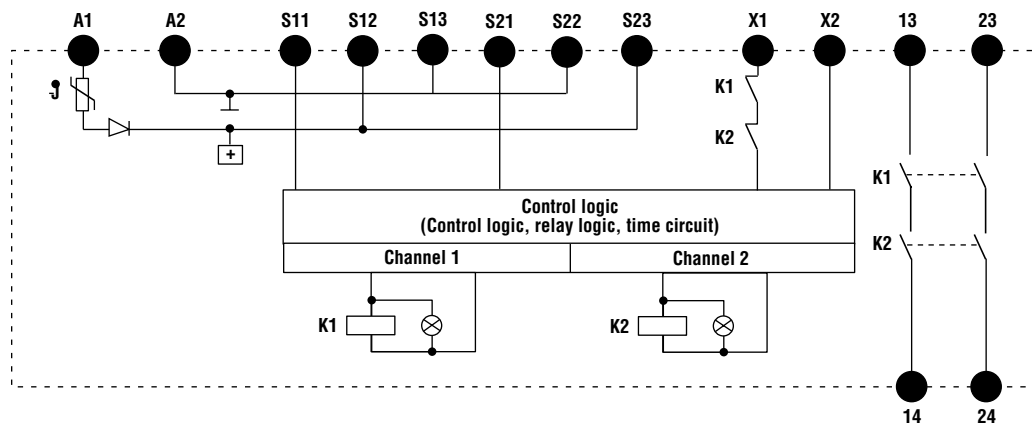
safety monitoring relays

SR104P

Two-Hand Control Safety Monitoring Relay

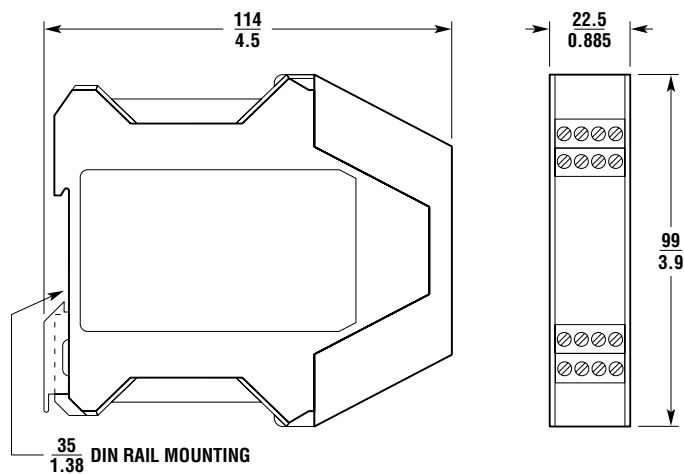
- Power requirements—the SR104P will accept 24 VAC/DC and 115 VAC
- Inputs—controls and monitors two-hand control switches to ensure that both switches are operated within 0.5 seconds of each other
- Outputs—the SR104P has 2 N/O outputs to route power to the coils of power contactors
- External Device Monitoring (EDM) is provided with a N/C loop between X1 and X2 on the SR104P

■ Block Diagram



■ Dimensions — mm/in.

SR104P



■ Specifications

Electrical	All Models	SR104P01	SR104P02
Power Supply:	±10%, 50-60 Hz	24 VAC/DC	115 VAC
Power Consumption AC:	Approx. 2.5 VA		
Power Consumption DC:	Approx. 1.5 W		
Safety Inputs:	2 x 2 pole (1 N/C + 1 N/O) hand switches		
Relay Outputs:	2 N/O		
Max Switched AC:	Inductive AC-15, 4 A/230 V		
Max Switched DC:	Inductive DC-13, 2 A/24 V		
Min Switched Current/Voltage:	20 mA/24 V		
Impulse Withstand Voltage:	2500 V		
Max Drop-Out Time:	35 ms (90 ms by removing supply voltage)		
Max Output Fuse:	6 A quick-acting or 4 A slow-acting		
Contact Monitoring:	N/C loop between X1 and X2		
Mechanical			
Mounting:	35 mm (1.38 in.) DIN rail		
Case Material:	Fiber-filled Polyamid PA6.6		
Max Wire Size:	1 x 2.5 mm ² (14 AWG) stranded		
Weight:	200 g (7 oz.)		
Color:	Red		
External Switches:	None		
Indication:	Green = K1 Closed, Green = 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 VAC: -15 to 40°C (5 to 104°F)		
Humidity:	93% RH at 40°C (104°F)		
Compliance			
Standards:	EN 60204-1, EN 574 Cat. IIIC, EN 954-1, VDE 0113-1		
Approvals/Listings:	CE marked for all applicable directives, UL and C-UL, BG		
Safety Category:	Cat. 4 per EN954-1 (SR104 internal operation)		

Specifications are subject to change without notice.

Note: The safety contacts of the Omron 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.
SR104P01	24 VAC/DC	2 x 2 pole (1 N/C + 1 N/O) hand switches	2 N/O	44510-1041
SR104P02	115 VAC	2 x 2 pole (1 N/C + 1 N/O) hand switches	2 N/O	44510-1042