Safety Monitoring Relays SR131A

Dual-Channel Safety Monitoring Relay

- Power requirements—the SR131A will accept 24 VDC
- Inputs—The SR131A is designed to monitor two magnetically encoded non-contact switches with 1 N/C and 1 N/O contacts
- Outputs—the SR131A has 2 N/O outputs to route power to the coils of external device power contactors plus 2 N/C auxiliary solid state outputs for signaling purposes
- External Device Monitoring (EDM) is provided with a N/C loop between Y1 and Y2 on the SR131A
- Selectable reset modes—automatic/manual reset mode is available on the SR131A











Conforms to EN60947-1/5, EN61000-6, EN62061, EN ISO 12100-2, EN ISO 13849-1/2 UL and C-UL listed CSA and TÜV Rheinland approved

Specifications

Electrical	All Models			
Power Supply:	±20%, 24 VDC			
Power Consumption:	≤2.5 W			
Internal Fuse:	Electronic			
Safety Inputs:	1 N/C + 1 N/O from two magnetically coded switches			
Relay Outputs:	2 N/O (2 solid state for signaling)			
Max Switched AC:	Inductive AC-15, 1800 VA inrush, 180 VA maintained			
Max Switched DC:	Inductive DC-13, 1.5 A/24 V			
Min Switched Current/Voltage:	10 mA/1 V (provided that the contact has never been used with higher loads)			
Impulse Withstand Voltage:	4000 V			
Max Drop-Out Time:	20 ms			
Max Output Fuse:	4 A slow-acting fuse or 6 A quick-acting fuse			
Reset Mode:	Automatic/manual			
External Device Monitoring (EDM):	N/C loop between Y1 and Y2			
Mechanical				
Mounting:	35 mm (1.38 in.) DIN rail			
Case Material:	Polyamide PA6.6			
Max Wire Size:	0.2 to 1.5 mm ² (24 to 16 AWG)			
Weight:	180 g (6.4 oz.)			
Color:	Red			
Indication:	Green = Power on, Red = Fault indication, Green = Outputs closed			
Mechanical Life:	1 x 10 ⁶ operations			
Environmental				
Enclosure Protection:	IP20 terminals, IP40 (NEMA 1) housing			
Operating Temperature:	-10 to 55°C (14 to 131°F)			
Compliance				
Standards:	EN60947-1/5, EN61000-6, EN62061, EN ISO 12100-2, EN ISO 13849-1/2			
Approvals/Listings:	CE-marked for all applicable directives, UL and C-UL, CSA, TÜV Rheinland			
Reliability Data				
per EN ISO 13849-1:	Cat. 4, PLe, PFHd 3.92E-09			

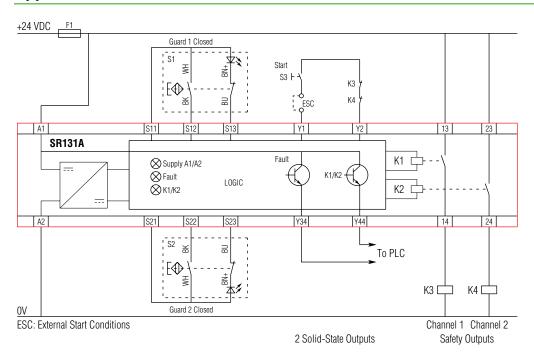
Specifications are subject to change without notice.

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.





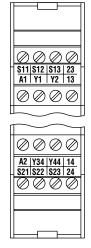
Application

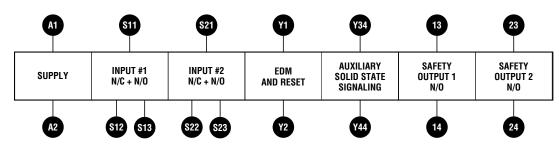


Output Contact Arrangements



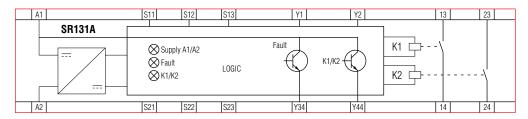
Terminal Connections



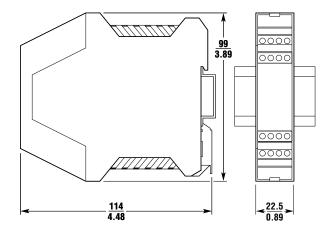




Block Diagram



Dimensions (mm/in.)



Ordering

Model	Supply	Inputs	Outputs	Auxiliary	Part No.
SR131A00	24 VDC	1 N/C + 1 N/O (two)	2 N/O	2 Solid State	44510-1310





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- and (ii) Buyer has no past due amounts.

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