



For full product information, visit www.sti.com. Use the SpeedSpec Code or scan the QR Code for quick access to the specific web page.

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 EN60204-1, EN954-1, EN292, and EN1088
UL and C-UL listed, CSA and BG 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 ⁸ operations
Environmental	
Enclosure Protection:	IP20 terminals, IP40 (NEMA 1) housing
Operating Temperature:	-10 to 55°C (14 to 131°F)
Compliance	
Standards:	EN60947-5-3, EN954-1, EN292, EN60204-1
Approvals/Listings:	CE-marked for all applicable directives, UL and C-UL, CSA, BG
Safety Category:	Cat. 4 per EN954-1 (SR131A internal operation)

Specifications are subject to change without notice.

Note:

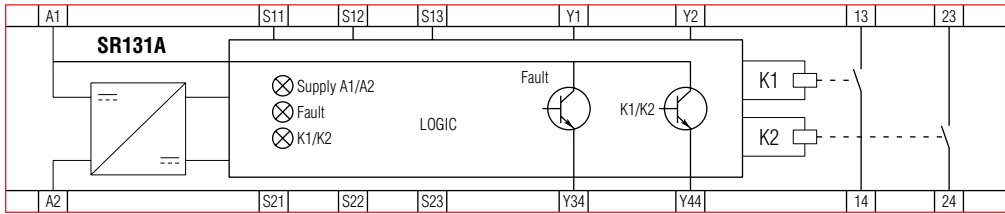
The safety contacts of the STI switches are described as normally closed (N/C)—i.e., with the guard closed, actuator in place, and the machine able to be started.



Select models are available for Rapid Delivery.

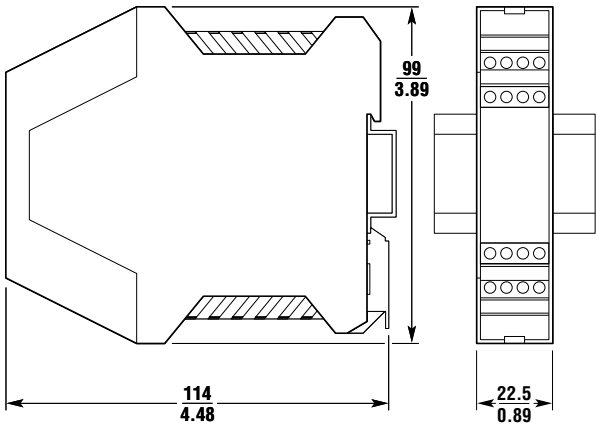
Visit this product on www.sti.com for details..

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