# Safety Monitoring Relays SR203M & SR203AM

## **Dual-Channel Safety Monitoring Relay**

- Power requirements—the SR203M/A will accept 24 VAC/DC or 115 VAC
- Inputs—the SR203M/A will accept single or dual N/C inputs or dual PNP
- Outputs from a light curtain
  Outputs—the SR203M/A has 3 N/O outputs to route power to the coils of
- power contactors, plus 1 N/C auxiliary output for signaling purposes
  External Device Monitoring (EDM) is provided with a N/C loop between S12 and S34 on the SR203M/A
- Monitored manual reset model SR203M or automatic reset model SR203AM
- The SR203M/A have removable terminal blocks



# Conforms to EN60204-1,

EN ISO 13849-1, ISO TR 12100 UL and C-UL listed

### Specifications

Electrical	All Models	SR203M01 & SR203AM01	SR203M02 & SR203AM02				
Power Supply:	±10%, 50-60 Hz	24 VAC/DC	115 VAC				
Power Consumption:	Approx. 2 W	•					
Safety Inputs:	1 N/C or 2 N/C or 2 PNF	(light curtain)					
Outputs:	3 N/O safety, 1 N/C aux	kiliary					
Output Rating AC:	Inductive AC-15, 5 A/23	0 VAC					
Output Rating DC:	Inductive DC-13, 3 A/24	VDC					
Min Switched Current/Voltage:	10 mA/10 V						
Impulse Withstand Voltage:	2500 V						
Max Drop-Out Time:	15 ms (while energized)						
Max Output Fuse:	10 A quick-acting or 6 A	10 A guick-acting or 6 A slow-acting					
Reset Mode:	Monitored manual (SR2	03M) or auto/manual (	SR203A)				
External Device Monitoring (EDM):	N/C loop S12-S34						
Mechanical							
Mounting:	35 mm (1.38 in.) DIN rail						
Case Material:	Polyamide PA6.6						
Max Wire Size:	0.2 to 4 mm <sup>2</sup> (24-12 AWG)						
Weight:		210 g (7.4 oz.)	260 g (9.2 oz.)				
Color:	Red						
External Switches:	None						
Indication:	Green = Power, Green =	- CH1 Closed, Green	= CH2 Closed				
Mechanical Life:	2 x 10 <sup>6</sup> operations						
Environmental							
Enclosure Protection:	IP20 terminals, IP40 (NEMA 1) housing						
Operating Temperature:	-5 to 55°C (23 to 131°F)						
Humidity:	90% RH						
Compliance							
Standards:	EN 60204-1, EN 954-1, ISO TR12100						
Approvals/Listings:	CE marked for all applicable directives, UL and C-UL						
Reliability Data							
per EN ISO 13849-1:	Cat. 4, PLe, PFHd 1.45E	-09					

Specifications are subject to change without notice.

Note:

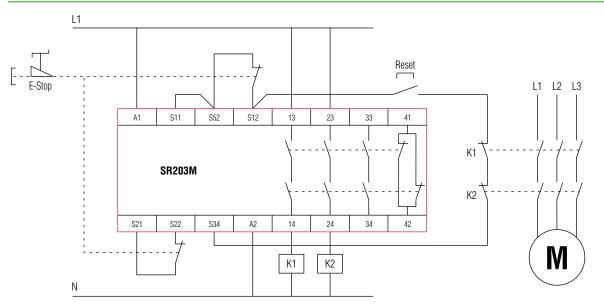
The safety contacts of the STI switches are described as normally closed (N/C)—i.e., with the guard closed, actuator in place, and the machine able to be started.





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## Application



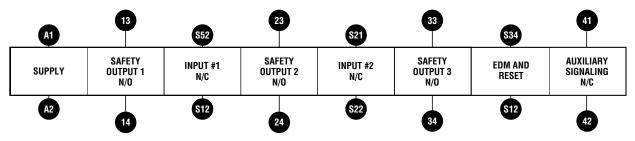
**Output Contact Arrangements** 

### **Terminal Pin Assignments**

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14	$\bigcirc$	$\bigcirc$	S21		A1	$\odot$	$\bigotimes$	13
24	$\otimes$	$\odot$	S22		S11	$\otimes$	$\otimes$	23
34	$\otimes$	$\otimes$	S34		S52	$\otimes$	$\otimes$	33
42	$\otimes$	$\otimes$	A2		S12	$\otimes$	$\otimes$	41

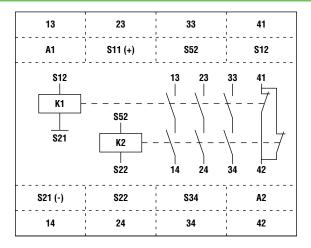
### **Terminal Connections**







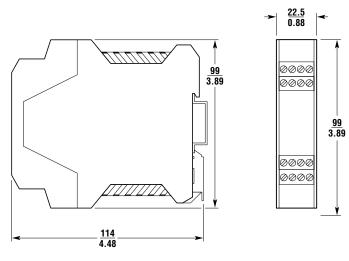
## **Block Diagram**



### Dimensions

(mm/in.)





## Ordering

Model	Supply	Inputs	Outputs	Auxiliary	Part No.
SR203AM01	24 VAC/DC	2 N/C	3 N/O	1 N/C	44510-2031
SR203AM02	115 VAC	2 N/C	3 N/O	1 N/C	44510-2032
SR203M01	24 VAC/DC	2 N/C	3 N/O	1 N/C	44510-2034
SR203M02	115 VAC	2 N/C	3 N/O	1 N/C	44510-2035





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