

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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







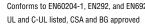














SR125SMS

Stop Motion Sensing Unit

- Power requirements—the SR125SMS will accept 24 VDC, 110 VAC, or 220 VAC
- Motion detection input—the SR125SMS detects the stop condition of all types of AC or DC motors by sensing the motor's back EMF across terminals Z1, Z2 and Z3
- Drive compatible—the SR125SMS will function with electronic motor control devices such as variable speed controllers, DC injection brakes, etc.
- Selectable speed limit—the SR125SMS has 1 N/O and 1 N/C outputs that are switched when motor speed reaches the adjustable preset limit (0.01 to 0.10 V) for the particular output
- Auxiliary output—the SR125SMS has 2 solid state auxiliary signaling outputs

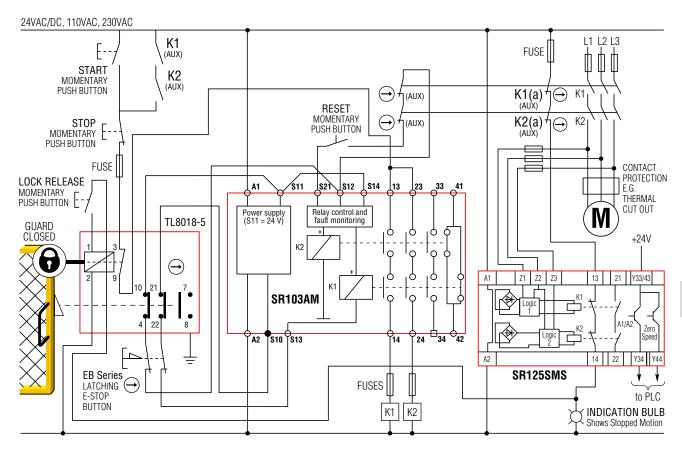








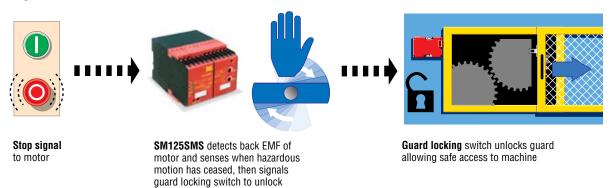
Application





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

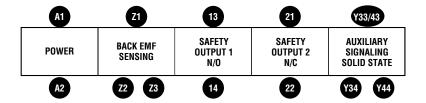
Operation



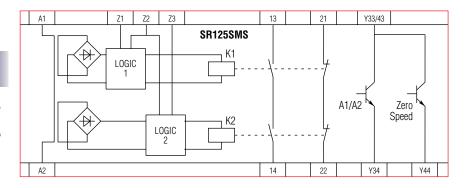




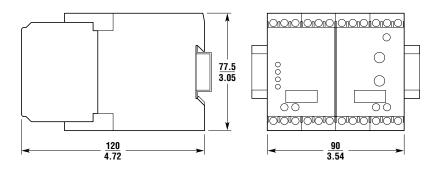
Terminal Connections



■ Block Diagram



■ Dimensions — mm/in.











Specifications

Electrical	All Models	SR125SMS00	SR125SMS02	SRS125SMS03			
Power Supply:	±10%	24 VDC	110 VAC	220 VAC			
Power Consumption:		≤3.5 W	≤7 VA	≤7.5 VA			
Internal Fuse:	Electronic						
Safety Inputs:	Back EMF sensing between Z1 and Z2 and Z3						
Maximum Motor Voltage:	500 VAC (0 to 60 Hz)						
Detection Threshold:	0.01 V						
Relay Outputs:	1 N/O + 1 N/C switched at preset detection threshold						
Auxiliary Outputs:	2 solid state for signaling						
Max Switched AC:	Inductive AC-15, 1800 VA inrush, 180 VA maintained						
Max Switched DC:	Inductive DC-13, 1.2-1.5 A/24 V						
Min Switched Current/Voltage:	10 mA/17 V (provided that the contact has never been used with higher loads)						
Impulse Withstand Voltage:	4000 V						
Max Drop-Out Time:	n/a						
Max Output Fuse:	4 A slow-acting or 6 A fast-acting						
Reset Mode:	n/a						
Mechanical							
Mounting:	35 mm (1.38 in.) DIN rail						
Case Material:	Polyamide PA6.6						
Max Wire Size:	2 x 2.5 mm (14 AWG) stranded						
Weight:	AC: 600 g (21 oz.); DC: 500 g (18 oz.)						
Color:	Red with black body						
External Adjustment:	Motor speed preset via potentiometer						
Indication:	Green = Power On	Green = Channel 1 activated,					
	Green = Channel 2 activate	ed Green = CH1 + CH	2 activated				
Environmental							
Enclosure Protection:	IP20 terminals, IP40 (NEMA 1) housing						
Operating Temperature:	-10 to 55°C (14 to 131°F)						
Compliance							
Standards:	EN1088, EN954-1, EN292, EN692, EN60204-1,						
Approvals/Listings:	CE-marked for all applicable directives, UL and C-UL, CSA, BG						
Safety Category:	Cat. 3 per EN954-1 (SR125SMS 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	Auxiliary	Part No.
SR125SMS00	24 VDC	Back EMF Sensing	1 N/O + 1 N/C	2 Solid State	44510-1250
SR125SMS02	110 VAC	Back EMF Sensing	1 N/O + 1 N/C	2 Solid State	44510-1252
SR125SMS03	230 VAC*	Back EMF Sensing	1 N/O + 1 N/C	2 Solid State	44510-1253

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





