

Safety Relays



Single and Specialty Function Safety Relays (MSR Family) 440R

- Single function and specialty relays
- Broad range of input types
- Multiple output configurations
- Electromechanical or solid-state
- Compact housings
- Fixed or removable terminals
- Safe speed control (MSR57)

A Full Line of Single and Specialty Function Relays

The Allen-Bradley Guardmaster single function and specialty safety relays support a wide variety of input devices and output configurations. Ideal for relatively small safety applications and single zone control, these relays are compact packages with removable terminals. They are also available in electromechanical versions, or solid-state models for applications involving high cycle rates. Applications include safe speed control (MSR57) and safety control circuits involving light curtains, laser scanners, safety mats, interlock switches, guard locking interlocks, two-hand controls, safety edges, enabling devices, and E-stop push buttons.



Interface directly and monitor safety control relays, valves, contactors, drives, and motion systems.



The MSR57 is ideal for small- to medium-sized safety related control systems dedicated to specific applications.

Safety Relays

Presence Sensing Devices



5-4...5-19

Interlock Switches



5-20...5-35

Access Control



5-36...5-37



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Emergency Stop Devices



5-44...5-45

Safety Limit Switches



5-46...5-47



Product Selection

Single and Specialty Function Safety Relays

Model	Safety Inputs	Safety Inputs		Safety Outputs		Current ¹ @ 24V DC	Delay Time	Terminals	Reset	Power	Cat No.
		Immed.	Delayed	Immed.	Delayed						
MSR126	1 N.C., light curtain	2 N.O.	—	—	—	6 A	—	Removable	Auto./man.	24V AC/DC	440R-N23117
MSR126.1	2 N.C.							Fixed	Mon. man.		440R-N23123
									Auto./man.		440R-N23114
									Mon. man.	115V AC	440R-N23113
MSR127	1 N.C., 2 N.C., light curtain	3 N.O.	—	1 N.C.	—	5 A	—	Removable	Auto./man.	24V AC/DC	440R-N23132
								Spring			440R-N23132S
								Fixed			440R-N23126
								Removable	Mon. man.	115V DC	440R-N23131
								Fixed		24V AC/DC	440R-N23135
MSR132 (expansion)	1 N.C., 2 N.C.	4 N.O.	—	2 N.C.	—	3 A	—	Removable	Automatic	24V AC/DC	440R-E23097
								Fixed			440R-E23191
MSR138	1 N.C., 2 N.C. light curtain	2 N.O.	3 N.O.	—	1 N.C.	6 A	0.15...3 s	Removable	Auto./mon. man.	24V AC/DC	440R-M23143
							0.5...10 s				440R-M23147
							1.5...30 s				440R-M23151
MSR138.1			2 N.O.				0.15...3 s				440R-M23084
							0.5...10 s				440R-M23088
							1.5...30 s				440R-M23092
MSR57 Speed Monitoring	5 x 1 N.C., 2 N.C., light curtain 1 N.O. & 1 N.C.	6 N.O.	—	4 N.O.	—	—	—	Removable	Automatic/ monitored manual	24V DC	440R-S845AER-NNL
MSR125 Two-Hand Control	1 N.C. & 1 N.O.	2 N.O.		—		4 A			Auto./man.	24V AC/DC	440R-D23171

¹ DC-13 inductive load current switching at maximum of 6 ops/min. MSR127 440R-N23132 has AC-15 inductive load current switching of 5 A @ 259V AC.

Specifications

Standards	EN ISO 13849-1, IEC/EN 60204-1, IEC 60947-5-1, ANSI B11.19, AS 4024.1
Safety Classification	Cat 4 per ISO 13849-1, SIL cl3 per IEC 62061, PLe per ISO 13849-1
Certifications	cULus Listed, c-Tick, and CE Marked for all applicable directives
Enclosure Type Rating/ Terminal Protection	IP40, IP20, DIN 0470
Operating Temperature [C (F)]	-5...+55 ° (23...131 °)
Mounting	35 mm DIN Rail
Conductor Size, Max.	0.2...4 mm ² (24...12 AWG)



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