

# 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



5-38...5-43

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 <sup>1</sup> @ 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	
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	Mon. man.	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	
MSR138	1 N.C., 2 N.C. light curtain	2 N.O.	3 N.O.	–	–	6 A	0.15...3 s 0.5...10 s 1.5...30 s 0.15...3 s 0.5...10 s 1.5...30 s	Removable	Auto./mon. man.	24V AC/DC	440R-M23143	
MSR138.1			2 N.O.								1 N.C.	440R-M23147
												440R-M23151
												440R-M23084
												440R-M23088
			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	

<sup>1</sup> 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

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

For more information on our complete family of safety relay products, please visit:  
<http://ab.rockwellautomation.com/Safety>

