

# Logic Single-Function Safety Relays with Delayed Outputs

MSR138DP

## Product Selection

Inputs	Safety Outputs	Delayed Safety Outputs	Delayed Auxiliary Outputs	Time Delay	Terminals	Reset Type	Power Supply	Cat. No.
1 N.C., 2 N.C., Light Curtain	2 N.O.*	3 N.O.* (MSR138DP)	—	1.0 seconds, fixed	Removable	Auto./Manual or Monitored Manual	115V AC	440R-M23080
				0.15...3 s	Spring Clamp		24V AC/DC	<b>440R-M23143</b> 440R-M23143S
					Removable		115V AC	440R-M23141
				0.15...3 seconds			Spring Clamp	230V AC
				0.5...10 s	Spring Clamp		24V AC/DC	<b>440R-M23147</b> 440R-M23147S
							115V AC	440R-M23145
				0.5...10 seconds	Spring Clamp		230V AC	440R-M23144
							24V AC/DC	440R-M23151
				1.5...30 seconds	Spring Clamp		115V AC	440R-M23149
		230V AC	440R-M23148					
		2 N.O.* (MSR138.1DP)	1 N.C.	0.15...3 seconds	Removable		24V AC/DC	<b>440R-M23084</b>
							115V AC	440R-M23082
							230V AC	440R-M23081
				0.5...10 seconds	Removable		24V AC/DC	<b>440R-M23088</b>
							115V AC	440R-M23086
							230V AC	440R-M23085
				1.5...30 seconds	Removable		24V AC/DC	440R-M23092
							115V AC	440R-M23090
230V AC	440R-M23089							

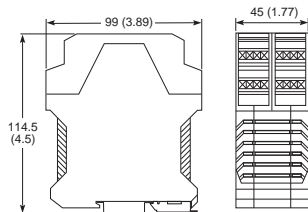
\* Instantaneous safety outputs Cat. 4  
\* Delayed safety outputs are Cat. 3

## Accessories

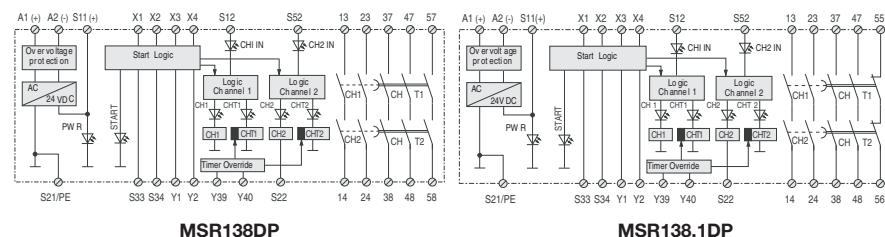
Description	Cat. No.
Bag of 4, 4-Pin Screw Terminal Blocks	440R-A23209
Bag of 4, 4-Pin Spring Clamp Terminal Blocks	440R-A23228

## Approximate Dimensions

Dimensions are shown in mm (in.).  
Dimensions are not intended to be used  
for installation purposes.

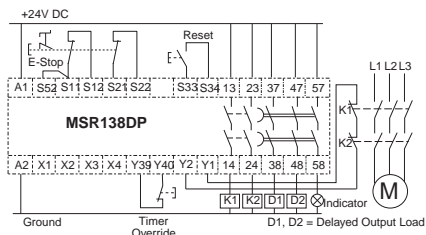


## Block Diagram

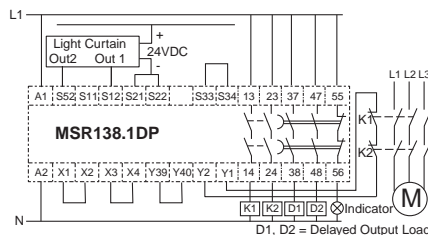


In applications with 24V AC supply: terminal S21 must not be connected to PE.

## Typical Wiring Diagrams



**24V DC Supply Dual Channel E-Stop,  
Monitored Manual Reset, Monitored Output**



**115/230V AC Supply, 24V DC Light Curtain,  
Automatic Reset, Monitored Output**

5-Safety Relays