

Single-Function Safety Relays with Delayed Outputs

MSR138DP

Logic

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	440R-M23143
				0.15...3 seconds	Removable		115V AC	440R-M23141
				0.5...10 s	Spring Clamp		230V AC	440R-M23140
				0.5...10 seconds	Removable		24V AC/DC	440R-M23147
				1.5...30 seconds	Spring Clamp		230V AC	440R-M23147S
				0.15...3 seconds	Removable		115V AC	440R-M23145
				0.5...10 seconds	Spring Clamp		230V AC	440R-M23144
				1.5...30 seconds	Removable		24V AC/DC	440R-M23151
				0.15...3 seconds	Removable		115V AC	440R-M23149
				0.5...10 seconds	Spring Clamp		230V AC	440R-M23148
				1.5...30 seconds	Removable		24V AC/DC	440R-M23084
	2 N.O.* (MSR138.1DP)	1 N.C.	—	0.15...3 seconds	Removable		115V AC	440R-M23082
				0.5...10 seconds	Spring Clamp		230V AC	440R-M23081
				1.5...30 seconds	Removable		24V AC/DC	440R-M23088
				0.15...3 seconds	Removable		115V AC	440R-M23086
				0.5...10 seconds	Spring Clamp		230V AC	440R-M23085

* Instantaneous safety outputs Cat. 4

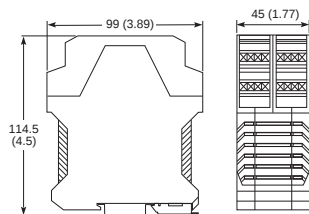
* Delayed safety outputs are Cat. 3

Accessories

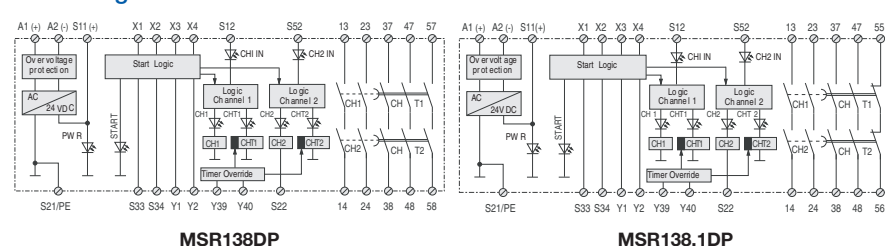
Description	Cat. No.
Bag of 4, 4-Pin Screw Terminal Blocks	440R-A23209
Bag of 4, 4-Pin Spring Clamp Terminal Blocks	440R-A23228

Approximate Dimensions

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



Block Diagram

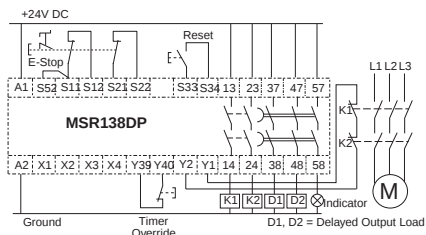


MSR138DP

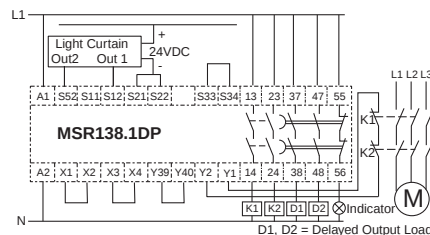
MSR138.1DP

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