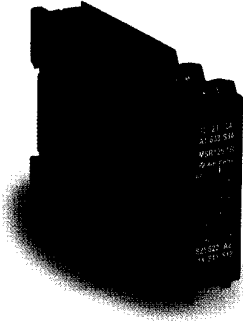


# Safety Monitoring Relay

product



**New**



## Minotaur MSR126R/T

The Minotaur MSR126R/T is a safety monitoring relay that provides the very basics for safety control systems in a 22.5mm package.

The MSR126R/T is designed for connection to a single channel safety gate, a single channel e-stop or a light curtain that provides crossfault detection. The MSR126.1R/T is designed for connection to a dual channel safety gate or e-stop, as it performs crossfault detection across the inputs.

The MSR126R and MSR126.1R are designed for applications where a monitored manual reset is required. Monitored manual reset requires the use of a manually operated normally open momentary switch to activate the outputs.

The MSR126T and MSR126.1T are designed for applications where automatic/manual reset is required. Automatic/manual reset allows a jumper across the S33-S34 circuit, and therefore does not perform output monitoring.

The outputs are only 2 normally open safety rated outputs. The safety outputs have independent and redundant internal contacts to help ensure the safety function.

### features

- Safety category 4
- Stop category 0
- 2 Safety contacts N.O.
- Single/dual channel operation
- Crossfault monitoring
- Monitored or automatic reset
- E-stop, safety gate or light curtain applications

### specifications

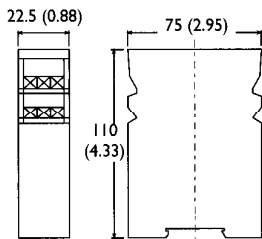
Standards	IEC60204-1, ISOTR12100
Safety Category	Cat. 4 per EN954-1
Approvals	CE marked for all applicable directives, BG, and cULus (except 42V AC units)
Power Supply	24V AC/DC, 42/115/230V AC (0.8 – 1.1 x rated voltage), 50/60Hz
Power Consumption	4W
Safety Inputs	1 N.C., 2 N.C. or Light Curtain
Input Simultaneity	Infinite
Max. Allowable Input Resistance	90 ohms
Reset	Auto./Manual or Monitored Manual
Outputs	2 N.O. Safety
Output Rating	B300, AC-15, 5A/250V AC N300, DC-13, 3A/24V DC
Fuses Output (external)	6A slow blow or 10A quick blow
Maximum Thermal Current, I <sub>e</sub>	1 x 6A, 2 x 4A
Minimum Switched Current/Voltage	10mA/10V
Power On Delay	300ms
Response Time	15ms
Recovery Time	100ms
Indication LEDs	Green = Power on Green = K1 Closed Green = K2 Closed
Impulse Withstand Voltage	2500V
Operating Temperature	-5°C to +55°C (+23° to +131°F)
Humidity	90% RH
Enclosure Protection	IP40 (NEMA 1), DIN 0470
Terminal Protection	IP20, DIN 0470
Conductor Size	0.2-4mm <sup>2</sup> (24-12AWG)
Installation Group	C in accordance with VDE 0110
Pollution Degree	2
Mounting	35mm DIN rail
Weight	24V DC 160g (0.353 lbs) 110 and 230V AC 215g (0.474 lbs)
Electrical Life	220V AC/4A/880VA/cosφ=0.35 100,000 operations 220V AC/1.7A/375VA/cosφ=0.6 500,000 operations 30V DC/2A/60W 1,000,000 operations 10V DC/0.01A/0.1W 2,000,000 operations
Mechanical Life	2,000,000 operations
Vibration	10g 10-55Hz
Shock	10g, 16ms 100 shocks



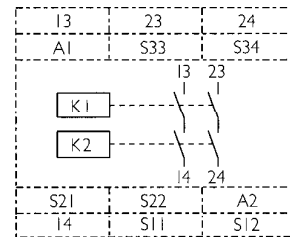
# Safety Monitoring Relay

Safety Outputs	Auxiliary Outputs	Reset	Input	Power Supply	Catalog Number
2 N.O.	None	Automatic/Manual	Light Curtain or Single Channel (MSR126T)	24V AC/DC	<b>440R-N23117</b>
				115V AC	<b>440R-N23116</b>
				230V AC	<b>440R-N23115</b>
			Dual Channel (MSR126.IT)	24V AC/DC	<b>440R-N23114</b>
				115V AC	<b>440R-N23113</b>
				230V AC	<b>440R-N23112</b>
		Monitored Manual	Light Curtain or Single Channel (MSR126R)	24V AC/DC	<b>440R-N23123</b>
				115V AC	<b>440R-N23122</b>
				230V AC	<b>440R-N23121</b>
			Dual Channel (MSR126.IR)	24V AC/DC	<b>440R-N23120</b>
				115V AC	<b>440R-N23119</b>
				230V AC	<b>440R-N23118</b>

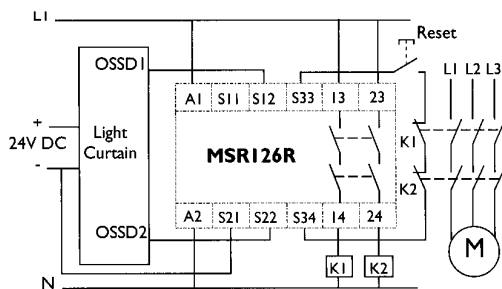
dimensions



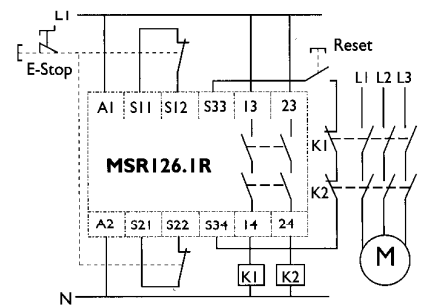
block diagram



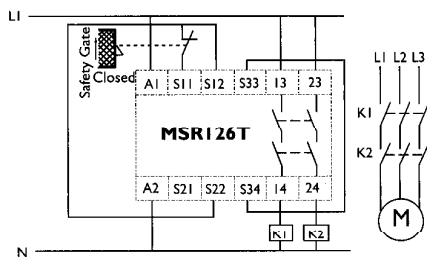
typical wiring diagrams



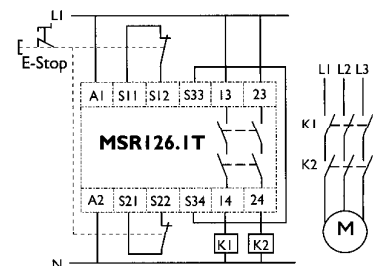
115/230V Supply, 24V DC Light Curtain, Monitored Manual Reset, Monitored Output



Dual Channel E-Stop Input, Monitored Manual Reset, Monitored Output



Single Channel Safety Gate Automatic Reset, No Output Monitoring



Dual Channel E-Stop, Automatic Reset, No Output Monitoring

