Safety Relays **Monitoring Safety Relays** Minotaur MSR126R/T



Description

The Allen-Bradley Guardmaster 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 cross fault detection. The MSR126.1R/T is designed for connection to a dual channel safety gate or e-stop, as it performs cross fault 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

- Category 4 per EN 954-1 Stop category 0 2 Safety contacts N.O.

- Single/dual channel operation
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- Cross fault monitoring Monitored or automatic reset
- E-stop, safety gate or light curtain applications

Specifications

Standards	EN954-1, ISO13849-1, IEC/ EN60204-1, IEC60947-4-1, IEC60947-5-1, ANSI B11.19, AS4024.1		
Category	Cat. 4 per EN954-1 (ISO 13849-1)		
Approvals	C-Tick, CE marked for all applicable directives, cULus (except 42V AC units) and BG		
Power Supply	24V AC/DC, 42/115/230V AC (0.8 – 1.1 x rated voltage), 50/60Hz		
Power Consumption	4VV		
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 Utilization per IEC 60947-4-1 (Resistive)	AC-1: 6A/250V AC DC-1: 6A/24V DC		
• Output Utilization per IEC 60947-5-1 (Inductive)	B300, AC-15 6A/250V AC, 6A/125V AC P300, DC-13 3A/24V DC 6A/24V DC @ 6 ops/min		
Thermal Current (non switching)	Max 6A in one current path		
Fuses Output (external)	6A slow blow or 10A quick blow		
Maximum Thermal Current, le	1 x 6A, 2 x 4A		
Min. 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 ² (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 (w/Surge Supp.) 250V AC/6A/1500VA cosφ=1 250V AC/2.5A/625VA cosφ=1 250V AC/1.5A/375VA cosφ=0.35 250V AC/5A/1250VA cosφ=0.6 24V DC/2A/48W 10V DC/0.01A/0.1W	100,000 operations 500,000 operations 300,000 operations 100,000 operations 1,000,000 operations 2,000,000 operations		
Mechanical Life	2,000,000 operations		
A Phone Marca	10g 10-55Hz		
Vibration	109 10 33112		

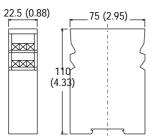
• See Output Ratings on page 1-29 for details. Consult factory for ratings not shown



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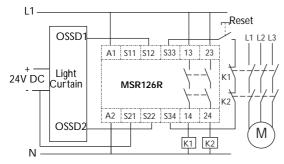
Safety Outputs	Auxiliary Outputs	Reset	Input	Power Supply	Catalogue Number
2 N.O. None		Automatic/Manual	Light Curtain or Single Channel (MSR126T)	24V AC/DC	440R-N23117
				115V AC	440R-N23116
				230V AC	440R-N23115
		Automatic/ivianuai	Dual Channel (MSR126.1T)	24V AC/DC	440R-N23114
				115V AC	440R-N23113
	None			230V AC	440R-N23112
	None		Light Curtain or Single Channel (MSR126R)	24V AC/DC	440R-N23123
				115V AC	440R-N23122
		Monitored Manual		230V AC	440R-N23121
	wonitored Wahuai		24V AC/DC	440R-N23120	
			Dual Channel (MSR126.1R)	115V AC	440R-N23119
				230V AC	440R-N23118

Dimensions-mm (inches) Block Diagram

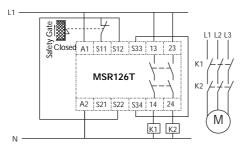


Typical Wiring Diagrams

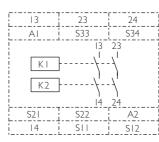
Product Selection

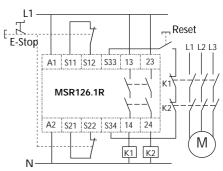


115/230V Supply, 24V DC Light Curtain, Monitored Manual Reset, Monitored Output

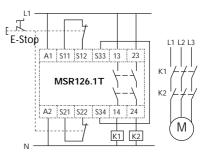


Single Channel Safety Gate Automatic Reset, No Output Monitoring





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



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





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