

MSR126R/T

Specifications

Safety Ratings		
Standards	EN 954-1, ISO 13849-1, IEC/EN 60204-1, IEC 60947-4-1, IEC 60947-5-1, ANSI B11.19, AS 4024.1	
Safety Classification	Cat. 4 per EN 954-1 (ISO 13849-1), SIL CL3 per EN IEC 62061, PLe per ISO 13849-1	
Functional Safety Data * Note: For up-to-date information, visit http://www.ab.com/safety/	PFH _D : < 1.45 x 10 ⁻⁹ MTTF _d : > 398 years Suitable for performance levels PLe (according to ISO 13849-1:2006) and for use in SIL3 systems (according to IEC 62061) depending on the architecture and application characteristics	
Certifications	CE Marked for all applicable directives, cULus, c-Tick, and BG	
Power Supply		
Input Power Entry	24V AC/DC, 115/230V AC	
Power Consumption	4 W	
Inputs		
Safety Inputs	1 N.C., 2 N.C., or LC	
Input Simultaneity	Infinite	
Input Resistance, Max.	90 Ω	
Reset	Auto./Manual or Monitored Manual	
Power On Delay/ Recovery Time	300 ms/100 ms	
Response Time	15 ms	
Outputs		
Safety Contacts	2 N.O.	
Thermal Current I_{Tth}	Max 6 A in one current path (nonswitching)	
Rated Impulse withstand Voltage	2500V	
Switching Current @ Voltage, Min.	10 mA @ 10V	
Fuses, Output	External 6 A slow blow or 10 A fast acting	
Electrical Life (Operations)	(With surge suppression) 250V AC/6 A/1500VA cosφ = 1...0.1 M 250V AC/2.5 A/625VA cosφ = 1...0.5 M 250V AC/1.5 A/375VA cosφ = 0.35...0.3 M 250V AC/5 A/1250VA cosφ = 0.6...0.1 M 24V DC/2 A/48 W = 1 M 10V DC/0.01 A/0.1 W = 2 M	
Mechanical Life	2,000,000 operations	
Utilization Category	UL: B300, 5 A/250V AC, 24V AC, 6 A/24V DC	
Resistive: AC-1	6 A/250V AC	
Resistive: DC-1	6 A/24V DC	
Inductive: AC-15	6 A/250V AC	6 A/125V AC
Inductive: DC-13	3 A/24V DC	6 A/24V DC @ 6 ops/min
Environmental and Physical Characteristics		
Enclosure Type Rating/ Terminal Protection	IP40 (NEMA 1), DIN 0470/ IP20, DIN 0470	
Operating Temperature [C (F)]	-5...+55 ° (23...131 °)	
Vibration	10...55 Hz, 0.35 mm	
Shock	10 g, 16 ms 100 shocks	
Mounting	35 mm DIN Rail	
Weight [g (lb)]	24V DC: 160 (0.35); 115/230V AC: 215 (0.47)	
Conductor Size, Max.	0.2...4 mm ² (24...12 AWG)	

* Usable for ISO 13849-1:2006 and IEC 62061. Data is based on the following assumptions:
- Mission time/Proof test interval of 20 years
- Functional test at least once within six-month period

Product Selection

Inputs	Safety Outputs	Auxiliary Outputs	Terminals	Reset Type	Power Supply	Cat. No.			
Light Curtain or Single Channel (MSR126T)	2 N.O.	None	Fixed	Auto./Manual	24V AC/DC	440R-N23117			
					115V AC	440R-N23116			
					230V AC	440R-N23115			
24V AC/DC					440R-N23114				
115V AC					440R-N23113				
230V AC					440R-N23112				
Dual Channel 2 N.C. (MSR126.IT)				2 N.O.	None	Fixed	Auto./Manual	24V AC/DC	440R-N23114
								115V AC	440R-N23113
								230V AC	440R-N23112
24V AC/DC	440R-N23113								
115V AC	440R-N23112								
230V AC	440R-N23111								
Light Curtain or Single Channel (MSR126R)	2 N.O.	None	Fixed				Auto./Manual	24V AC/DC	440R-N23123
								115V AC	440R-N23122
								230V AC	440R-N23121
24V AC/DC				440R-N23120					
115V AC				440R-N23119					
230V AC				440R-N23118					
Dual Channel 2 N.C. (MSR126.IR)				2 N.O.	None	Fixed	Auto./Manual	24V AC/DC	440R-N23123
								115V AC	440R-N23122
								230V AC	440R-N23121
24V AC/DC	440R-N23120								
115V AC	440R-N23119								
230V AC	440R-N23118								
Light Curtain or Single Channel (MSR126R)	2 N.O.	None	Fixed				Monitored Manual	24V AC/DC	440R-N23123
								115V AC	440R-N23122
								230V AC	440R-N23121
24V AC/DC				440R-N23120					
115V AC				440R-N23119					
230V AC				440R-N23118					
Dual Channel 2 N.C. (MSR126.IR)				2 N.O.	None	Fixed	Monitored Manual	24V AC/DC	440R-N23123
								115V AC	440R-N23122
								230V AC	440R-N23121
24V AC/DC	440R-N23120								
115V AC	440R-N23119								
230V AC	440R-N23118								