MSR6R/T

Description

The MSR6R/T has an internal switch that allows the user to select either 1 N.C. single channel input for use with gate interlock and emergency stop buttons in lower risk applications or 2 N.C. dual channel inputs for higher risk applications.

The MSR6R/T has an internal selector switch that can accommodate automatic/manual or a monitored manual reset function. Automatic/ manual reset can use a jumper or can be used to check operation of the contacts. Monitored manual requires the use of a manually operated normally open momentary switch to activate the outputs.

The MSR6R/T has 3 N.O. safety outputs and 1 N.C. auxiliary output. The safety outputs have independent and redundant internal contacts to help ensure the safety function. The auxiliary contact is a nonsafety output intended to provide an external signal about the status of the safety outputs.

Features

- Category 3 per EN 954-1
- Stop category 0
- Switch selectable input
- Three N.O. safety outputs
- One N.C. auxiliary output
- Switch selectable reset
- 45 mm wide housing

Applications



- Contactor monitoring circuit
- Contactor switching circuit
- Supply inclusive of switching circuit
 Contactor
 - Monitored by Minotaur

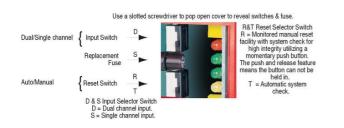
Specifications



Standards	EN 954-1, ISO13849-1, IEC/EN 60204-1, IEC 60947-5-1, ANSI B11.19, AS4024.1	
Category	Cat. 3 per EN 954-1 (ISO 13849-1)	
Certifications	CE Marked for all applicable directives, cULus, c-Tick, and TÜV	
Power Supply	24V AC/DC, 110V AC 50/60 Hz or 230V AC 50/60 Hz	
Power Consumption	<4 VA	
Safety Inputs	2 N.C.	
Input Simultaneity	0.5 seconds	
Input Resistance, Max.	500 Ω	
Reset Type	Monitored Man. or Auto./Man.	
Safety Outputs	3 N.O. Safety; 1 N.C. Auxiliary	
Output Utilization per IEC60947-5-1 (Inductive)*	B300 AC-15; 4 A/250V AC, 4 A/120V AC P300 DC-13; 3 A/24V DC	
Thermal Current	4 A (nonswitching)	
Fuses, Input	500 mA time lag (internal, replacable)	
Fuses, Output	5 A quick acting (external)	
Switching Current @ Voltage, Min.	10 mA/10V	
Maximum Drop-Out Time	50 ms	
Status Indicators	Red = Power On; Green = K1 Closed; Green = K2 Closed; Amber = Single Channel Mode	
Rated Impulse withstand Voltage	2500V	
Installation Group	C in accordance with VDE 0110	
Pollution Degree	3	
Operating Temperature [C (F)]	-1055° (14131°)	
Relative Humidity	90%	
Enclosure Type Rating	IP40, (NEMA 1), DIN 0470	
Terminal Protection	IP20, DIN 0470	
Conductor Size, Max.	1 x 2.5 mm2 (14 AWG) stranded, 1 x 4 mm2 (12 AWG) solid	
Torque Settings-terminal screws	1 N•m (8.85 lb•in)	
Material	Red Polycarbonate	
Mounting	35 mm DIN Rail	
Weight [g (lb)]	510 (1.12)	
Electrical Life	220V AC/4A/880VA $cos\phi = 0.35 - 100,000$ operations 220V AC/1.7A/375VA $cos\phi = 0.6 - 500,000$ 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	0.75 mm (0.30 in.) peak, 1055 Hz	
Shock	30 g, 11 ms half-sine	

* See Output Ratings on Output Ratings for details. Consult factory for ratings not shown.

Applications



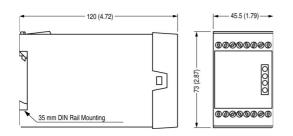
Product Selection

Inputs	Safety Outputs	Auxiliary Outputs	Power Supply	Cat. No.
1 N.C. or 2 N.C.	3 N.O.	1 N.C.	24V AC/DC	440R-C23017
			110V AC	440R-C23018
			230V AC	440R-C23019

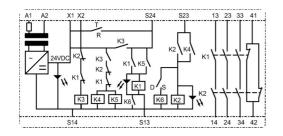
Description	Page Number	Cat. No.
500 mA fuse-Bussmann Cat. No. ETF-500 mA	Accessories	440R-A31562

Approximate Dimensions

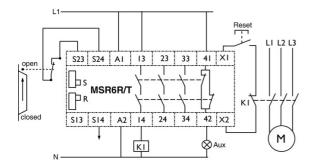
Dimensions are shown in mm (in.). Dimensions are not intended to be used for installation purposes.



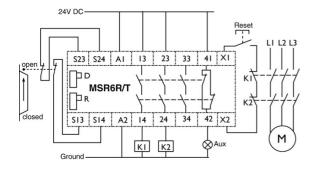
Block Diagram



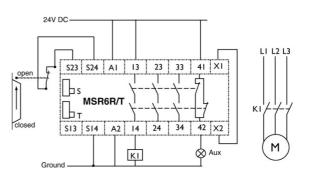
Typical Wiring Diagrams



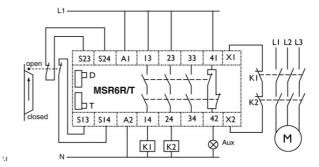
Single-Channel Safety Gate, Monitored Manual Reset, Single-Channel Output , Monitored Output







Single-Channel Safety Gate, Automatic Reset, Single-Channel Output, No Monitored Output



Dual-Channel Safety Gate, Automatic Reset, Dual-Channel Output, Monitored Output