Safety Relays Two Hand Relays Minotaur MSR35H/HP



Description

The Minotaur MSR35H/HP is a microprocessor-based, two-hand control monitoring safety relay, with safety rated, solid state outputs.

The input of the MSR35H/HP accepts two switches, each containing one normally open and one normally closed. Both switches must be actuated within 0.5 seconds of each other.

The reset capability of the MSR35H/HP allows it to set up for manual or automatic start and restart.

The outputs include two normally-open safety rated outputs that can be connected to loads up to 2A at 24V DC. These outputs can be used to send a safety stop signal to a machine or manufacturing system.

The MSR35H/HP also has one solid state normally-closed auxiliary output, which must only be used to indicate the status of the MSR35H/HP.

Features

- Cat. 4 per EN954-1
- Cat. IIIC per EN574
- 2 Solid State Safety Outputs
- 1 Solid State Auxiliary Output
- Two-hand control input

Specifications Standards EN954-1, ISO13849-1, EN574, IEC/EN60204-1, ANSI B11.19, AS4024.1 Cat. 4 per EN954-1 (ISO13849-1) Cat. IIIC per EN574 Safety Category CE for all applicable directives, C-Tick, cULus, TUV Approvals 24V DC SELV Power Supply Power Consumption 3W Safety Inputs 1 N.C. & 1 N.O. (Two sets) Max. Allowable Input Resistance 200 ohms Outputs 2 N. O. Safety, 1 N.C. Aux, 2A @ 24VDC **Output Rating Safety** Auxiliary 50mA @ 24VDC 6A slow blow or 10A quick blow Fuses, output external Power On Delay 3s Response Time 15ms **Recovery Time** 20ms Green = Power (Pwr) Green = K1 Closed Green = K2 Closed Indication LEDs Initializing Phase Normal Operation Pwr LED 3s Blink **Diagnostics** Constant 2 Blinks Config. change during operation Solid state output switch fault 4 Blinks Continuous Blinking Internal Fault -5°C to +55°C (+14° to +131°F) **Operating Temperature** 90% RH Humidity IP40 (NEMA 1), DIN 0470 **Enclosure Protection** Terminal Protection IP20, DIN 0470 Pollution Degree Conductor size 0.2 - 2,5mm² (24 - 14AWG) Mounting 35mm DIN rail Weight 130g (0.287 lbs) Vibration 10-55Hz, 0.35mm Shock 10g, 16ms, 100 shocks

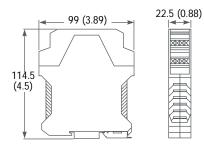
 See Output Ratings on page 1-29 for details. Consult factory for ratings not shown.



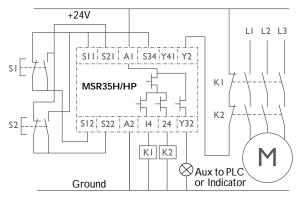
Product Selection

Inputs	Safety Outputs	Auxiliary Outputs	Terminals	Catalogue Number
Two-Hand Control	2 N.O. Solid state	1 N.O. Solid state	Fixed	440R- D23201
			Removable	440R- D23202

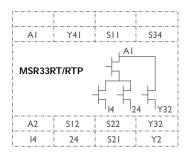
Dimensions—mm (inches) Block Diagram

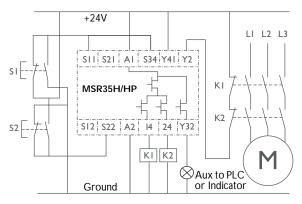


Typical Wiring Diagrams



Two-Hand Control, Dual Channel Outputs, Automatic Reset, Output Monitoring





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