

Safety Switch Wiring

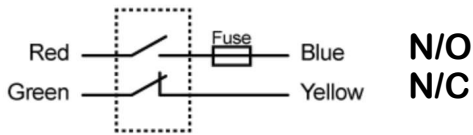
These switches are rated to handle 3 amps @ 110Vac, 2 amps @ 230Vac, and 1 amp @ 24Vdc
 We recommend wiring them on 110Vac or 24Vdc.

An external fuse is recommended. Refer to the external fuse specs below.

Wire into a magnetic motor starter, power relay, or safety relay. Insure safe operation of the machine afterwards. The spindle should not re-start when the guard is closed. In some cases, a reset or run button will need to be installed.

You will wire in the red and blue wires (N/O) to make the switch function with the machine.

1 Normally Open Contact + 1 Normally Closed Contact



The N/O Contact on the switch is open when the actuator is away from the switch. When the actuator is within the specified operating distance the N/O contact will close and the N/C contact will open.

Technical Specifications	MS6-11-AC-06M
Contacts	1NO + 1NC
Safety Contact Rating	230Vac / 2Amps, 110Vac / 3Amps or 24Vdc / 1 Amp
Safety Contact Switching	10mm ON (MIN) / 28mm OFF (Max)
Auxiliary Contact Rating	24Vdc / 300mA
Auxiliary Contact Switching	11mm OFF (Min) / 21mm ON (Max)
Internal Fuse	230Vac - 2 Amps / 110Vac - 3.5Amps / 24Vdc - 1 Amp
External Fuse (<i>Customer Supplied</i>)	230Vac - 1.6 Amps / 110Vac - 3.0 Amps 24Vdc - 800mA
Construction	RED ABS, or 316 Grade Stainless Steel
IP Rating	IP67 / IP69K
Operating Temperature	-25°C to +55°C (High Temp -25°C to +125°C)
Fixing	M4 Torx security screws (Tightening Torque 1.0NM)
Connection	Pre-wired or M12 Quick Disconnect
Vibration	10 - 50Hz IEC 68-2-6
Shock	30g, 11ms IEC 68-2-27



Safety Related Data			
B10d	2,000,000	PFH	6.52 x 10 ⁻⁸
TM (Mission Time)	> 20 Years	PFHd	4.3 x 10 ⁻⁶ See Note 1
DC	99%	SFF	98%
MTTFd	High > 100 Years (Based on usage rate of 360 Days/Year, 24 Hours/Day, 10 Operations/Hour)		
Note 1: Based on dual channel wiring according to CAT 4. Diagnostic coverage provided by downstream control logic. DC - medium, MTTFd = 100 Years. Suitable for performance level applications PLe according to ISO 13849-1. (SIL 3 or SIL 2 according to IEC 62061)			