

## Guard Locking Switches

440G-MT



## Description

The 440G-MT solenoid switch is a positive mode, tongue operated guard locking interlock switch that locks a machine guard closed until power is isolated and ensures that it remains isolated while the guard is open. The guard may only be opened when a signal is applied to the internal solenoid which releases the lock mechanism. The 440G-MT locking mechanism withstands forces up to 1600N (360lbs) and the die-cast alloy housing is ideal for use in harsh environments.

The 440G-MT solenoid switch is designed for machines that do not stop immediately or where premature interruption of the machine could cause damage to tooling and components or cause an additional hazard.

## Features


- Mechanical lock
- High locking force—1600N (360lbs.)
- Heavy duty die-cast alloy housing ideal for harsh environments

## Specifications







Standards	EN954-1, ISO13849-1, IEC/EN60204-1, NFPA79, EN1088, ISO14119, IEC/EN60947-5-1, ANSI B11.19, AS4024.1	
Category	Cat. 1 Device per EN954-1 Dual channel interlocks suitable for Cat. 3 or 4 systems	
Approvals	cULus, TÜV	
Safety Contacts	4 N.C., 3 N.C., 2 N.C. direct opening action	
Auxiliary Contacts	1 N.O., 2 N.O.	
Utilisation Category	AC (Ue) (le) DC	AC 15 250V 2A 250V 0.5A, 24V 2A
Max. Switched Current/Volt/Load	500V 500VA	
Thermal Current (Ith)	5A	
Min Current	5V, 5mA DC	
Safety Contact Gap	> 2mm contact block	
Rtd. Insulation Voltage	(Ui) 500V	
Rtd. Impulse withstand Voltage	(Uimp) 2500V	
Auxiliary Contacts	1 N.O.	
Pollution Degree	3	
Actuator Travel for Positive Opening	15mm (0.59in)	
Break Contact Min Force	6N (1.35lbs)	
Max Actuation Speed	160mm per sec (6.3 in. per sec)	
Max Actuation Frequency	2 Cycle per sec	
Case Material	Painted zinc alloy	
Actuator Material	Stainless Steel	
Protection	IP67	
Conduit Entry	3 x M20, 3 x 1/2in NPT or quick disconnect style	
Operating Temperature	-25°C to +60°C (13°F to +140°F)	
Fixing	4 x M5	
Mechanical Life	1,000,000 cycles	
Electrical Life	1,000,000 cycles	
Weight	1400g (3.08lbs)	
Colour	Red	
Torque Settings	Fixing Bolts Lid Screws Terminal Screws	1.6Nm 1.6Nm 1.6Nm
Max Holding Force	1600N (360lbs)	
Min Operating Radius	60mm (2.36in)	
Power Supply	24V AC/DC or 110V AC or 230V AC	
Solenoid Power	13W typical 100% ED	
Solenoid Rating	100%	

Interlock Switches  
**Guard Locking Switches**  
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**Product Selection**

Solenoid Voltage	BBM/MBB	Contacts		Actuator	Catalogue Number		
		Safety	Aux.		M20 Conduit	1/2in NPT Adaptor	Quick Disconnect
24V AC/DC	BBM	3 N.C.	1 N.O.	Standard	440G-MT47037	440G-MT47039	440G-MT47041
				Fully-Flex	440G-MT47038	440G-MT47040	440G-MT47042
				—	440G-MT47007	440G-MT47008	440G-MT47043
		2 N.C.	2 N.O.	Standard	440G-MT47044	440G-MT47046	440G-MT47048
				Fully-Flex	440G-MT47045	440G-MT47047	440G-MT47049
				—	440G-MT47010	440G-MT47011	440G-MT47050
—	—	4 N.C.	—	—	440G-MT47031	440G-MT47032	440G-MT47069
110V AC/DC	BBM	3 N.C.	1 N.O.	Standard	440G-MT47070	440G-MT47073	440G-MT47075
				Fully-Flex	440G-MT47071	440G-MT47074	440G-MT47076
				—	440G-MT47013	440G-MT47009	440G-MT47072
		2 N.C.	2 N.O.	Standard	440G-MT47077	440G-MT47079	440G-MT47081
				Fully-Flex	440G-MT47078	440G-MT47080	440G-MT47082
				—	440G-MT47012	440G-MT47014	440G-MT47083
—	—	4 N.C.	—	—	440G-MT47033	440G-MT47034	440G-MT47106
230V AC/DC	BBM	3 N.C.	1 N.O.	—	440G-MT47016	440G-MT47017	440G-MT47107
		2 N.C.	2 N.O.	—	440G-MT47015	440G-MT47024	440G-MT47108
		—	—	—	440G-MT47035	440G-MT47036	440G-MT47111
		M23 mating cable 2m (6.5ft). See page 15-13 for details and additional lengths.					889M-F12X9AE-2

**Accessories**

Description	For Dimensions refer to page	Catalogue Number
 TLS-GD2 Standard Actuator	14-4	440G-A27011
 Flat Actuator	14-5	440K-A11112
 Fully-Flexible Actuator	14-4	440G-A27143
 Sliding Bolt Actuator	14-4	440G-A27163
 Extended Flat Actuator	14-5	440K-A17116
 Replacement Cover No LED No Override Key	—	440G-MT47120

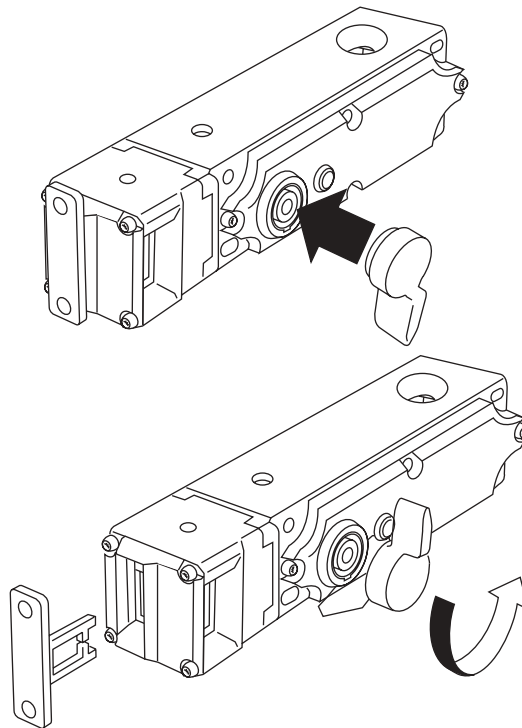
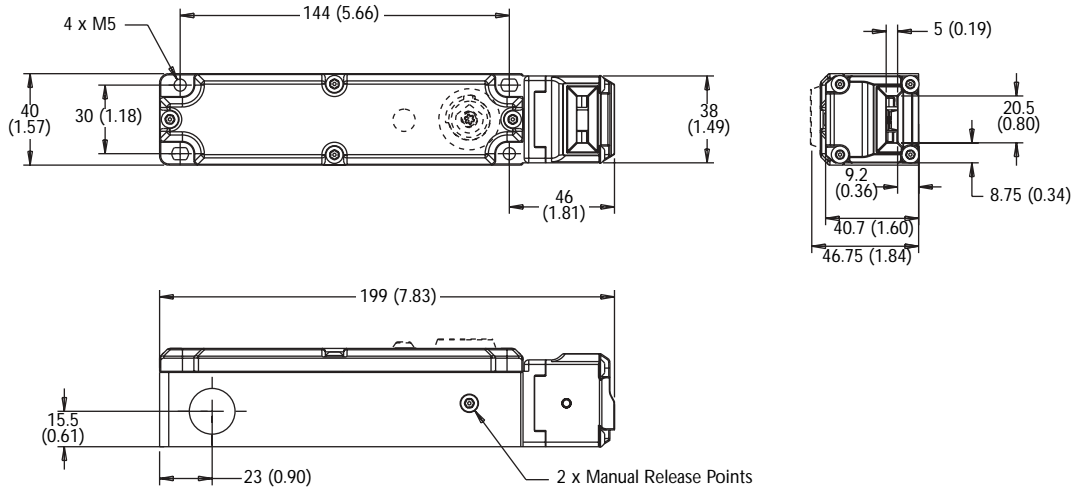
## Interlock Switches

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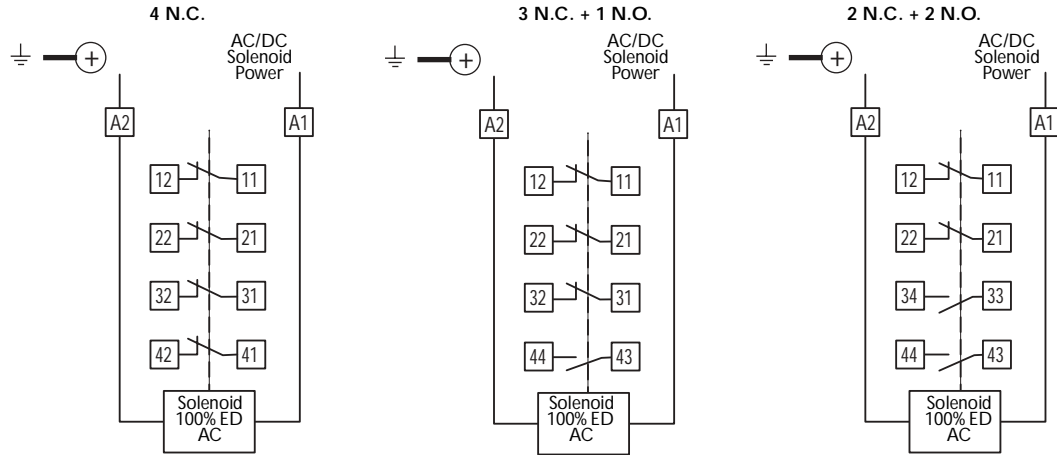
## 440G-MT

### Approximate Dimensions—mm (inches)

*Dimensions are not intended to be used for installation purposes.*



**Typical Wiring Diagrams**



Connector Pinout		4 N.C.		3 N.C. + 1 N.O.		2 N.C. + 2 N.O.	
		Terminal	Contact	Terminal	Contact	Terminal	Contact
	1	A1	Solenoid Power	A1	Solenoid Power	A1	Solenoid Power
	3	A2		A2		A2	
	4	11	N.C.	11	N.C.	11	N.C.
	6	12	N.C.	12	N.C.	12	N.C.
	7	21	N.C.	21	N.C.	21	N.C.
	8	22	N.C.	22	N.C.	22	N.C.
	2	31	N.C.	31	N.C.	33	N.O.
	5	32	N.C.	32	N.C.	34	N.O.
	9	41	N.C.	43	N.O.	43	N.O.
	10	42	N.C.	44	N.O.	44	N.O.
12	Ground						

**Contact Action**

□ Contact Open    ■ Contact Closed

Actuator withdrawal distance from full insertion

