

# Installation Instructions

Original Instructions



## Sigma Maglock MPS44

Catalog Numbers 443S-M565253, 443S-M545267

### Summary of Changes

Updated certification specifications.

### Certification

ExiaIICT6 Certificate number Baseefa 02ATEX0120X. Conforms to standards EN 60079-0:2012+ A11:2013 and EN 60079-11:2012.

### Technical Specifications

Housing Material	Stainless steel	
Ingress Protection	IP68 (to IEC 60529:1989)	
Operating Temperature Range	-20...+40°C (-4...+104 °F)	
Cable options	Cross linked Polyolefin (braided) PVC flexible cable Mineral insulated copper cable (MICC)	
Reed switch	Changeover rhodium contacts Mineral insulated copper cable	
Connections (actuator away)	Polyolefin	
	MICC	
Weight	0.6 kg (21.16 oz) approx. - Polyolefin 0.5 kg (17.64 oz) approx. - MICC	

### System Requirements

The electrical circuit in the hazardous area must be able to withstand an AC test voltage of 500V rms to earth or frame of the apparatus for one minute. The installation must comply with the installation requirements as specified in EN 60079-14:2014. The power source must be certified by an EEC approved body to Exia or Exib, whichever is applicable: with  $U_i$  max out 30V;  $I_i$  max out 250 mA;  $P_i$  max out 1.3 W.

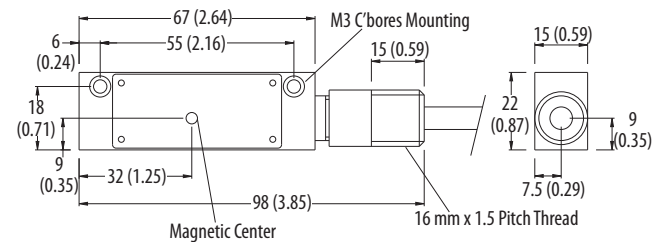
The capacitance and inductance, or inductance to resistance (L/R) ratio of the hazardous area cables must not exceed the values for the power source in use. Safe area apparatus is unspecified except that it must not be supplied from, nor contain under normal or abnormal conditions, a source of potential (with respect to earth) in excess of 250V rms or 250V DC.

Special conditions of use — the cable must be terminated in an enclosure that provides a degree of protection of at least IP20 for the connections. The MPS1 and Maglock Actuator Switch housing can be

aluminum alloy, in which case it must be suitable for the intended use and protected against impact and friction. Switches within a plastic enclosure can constitute a potential electrostatic ignition risk. They must not be rubbed or cleaned with a dry cloth.

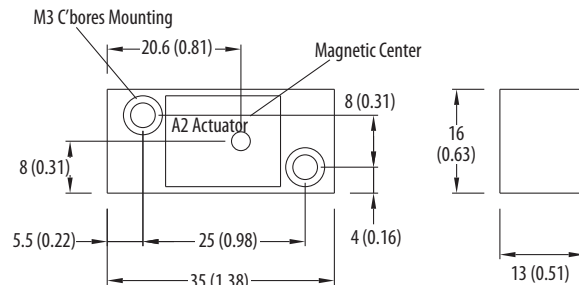
### Approximate Dimensions [mm (in.)]

#### Switch



Switch	Power	Max Current	Max Voltage	Catalog Number
MPS 44 (Polyolefin)	10 W DC, 10VA AC	0.5 A AC/DC	250V DC, 150V AC	443S-M565253
MPS 44 (MICC)	10 W DC, 10VA AC	0.5 A AC/DC	250V DC, 150V AC	443S-M565267

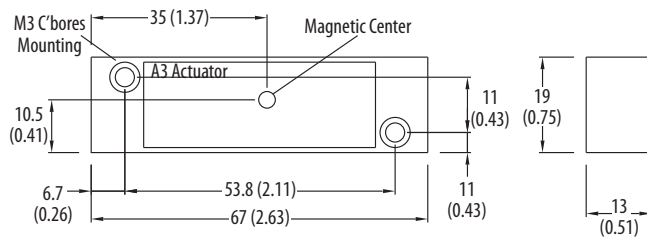
#### 440S-M545005 Actuator



Non-magnetic mounting screws must be used.

Operating Distance [mm (in.)]	Differential [mm (in.)]	
	Max	Typical
6 (0.24)	16 (0.63)	11 (0.43)

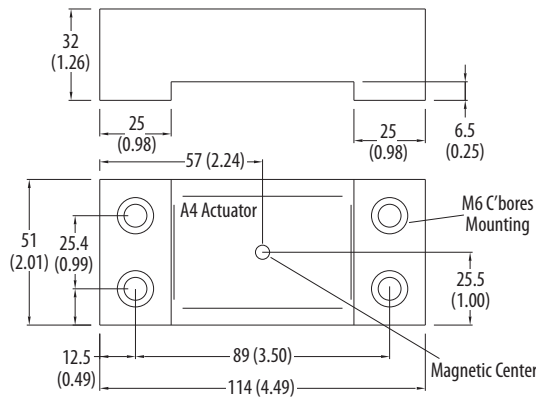
### 440S-M545008 Actuator



Non-magnetic mounting screws must be used.

Operating Distance [mm (in.)]	Differential [mm (in.)]	
	Max	Typical
19 (0.74)	25 (0.98)	17 (0.66)

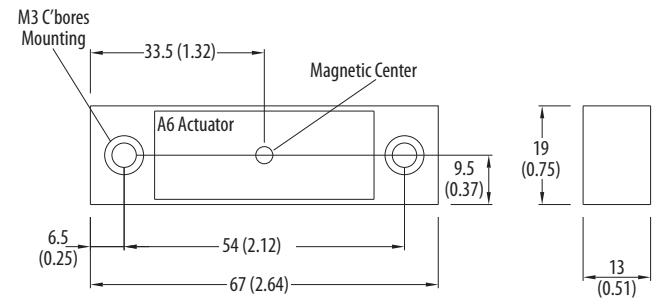
### 440S-M545009 Actuator



Non-magnetic mounting screws must be used.

Operating Distance [mm (in.)]	Differential [mm (in.)]	
	Max	Typical
86 (3.38)	63 (2.48)	50 (1.97)

### 440S-M545013 Actuator



Non-magnetic mounting screws must be used.

Operating Distance [mm (in.)]	Differential [mm (in.)]	
	Max	Typical
47 (1.85)	42 (1.65)	25 (0.98)



### Rockwell Automation Support

For technical support, visit <http://www.rockwellautomation.com/support/overview.page>.

### Waste Electrical and Electronic Equipment (WEEE)



At the end of life, this equipment can be collected separately from any unsorted municipal waste.

Rockwell Automation maintains current product environmental information on its website at <http://www.rockwellautomation.com/rockwellautomation/about-us/sustainability-ethics/product-environmental-compliance.page>.

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