

Magnetic Proximity Sensors (Reed)



MP2017 Sensors

Reed based magnetic proximity sensor
encapsulated in smooth plastic barrel

Description

The MP2 Series sensors are reed proximity sensors. Normally open or closed contacts change states when a magnetic field is applied. The sensors act as non-latching electrical switches.

Features

- Contacts hermetically sealed for long life
- Zero power consumption
- Suitable for DC and AC circuits
- RoHS compliant
- IP65
- Operate/Release Distances*: 3.81 mm – 12.7 mm (0.15" – 0.5")

Typical Applications

- Door position & interlock
- Limit switch
- Flow/speed
- Home security
- Pedal switch

Environmental Specifications

| | |
|-----------------------|---|
| Vibration | 20 g 10 Hz to 1 kHz (MP201701), 20 g 10 Hz to 55 Hz (MP201702, MP201703) |
| Operating Temperature | -40 °C to 105 °C (-40 °F to 221 °F) |
| Storage Temperature | -40 °C to 105 °C (-40 °F to 221 °F) |
| Ingress Protection | IP65 |

Electrical Specifications

| | |
|--------------------------------------|--------------------|
| Typical Operating Time | 1 ms |
| Breakdown Voltage | 200 VDC min. |
| Switching Voltage and Current | See Products chart |
| Contact Resistance and Power rating: | See Products chart |

Mechanical Specifications

| | |
|----------------------------------|----------------------------------|
| Housing Material | Glass-reinforced Plastic |
| Operate/Release Distances* | 3.81 mm – 12.7 mm (0.15" – 0.5") |
| *with AS201701 magnetic actuator | |

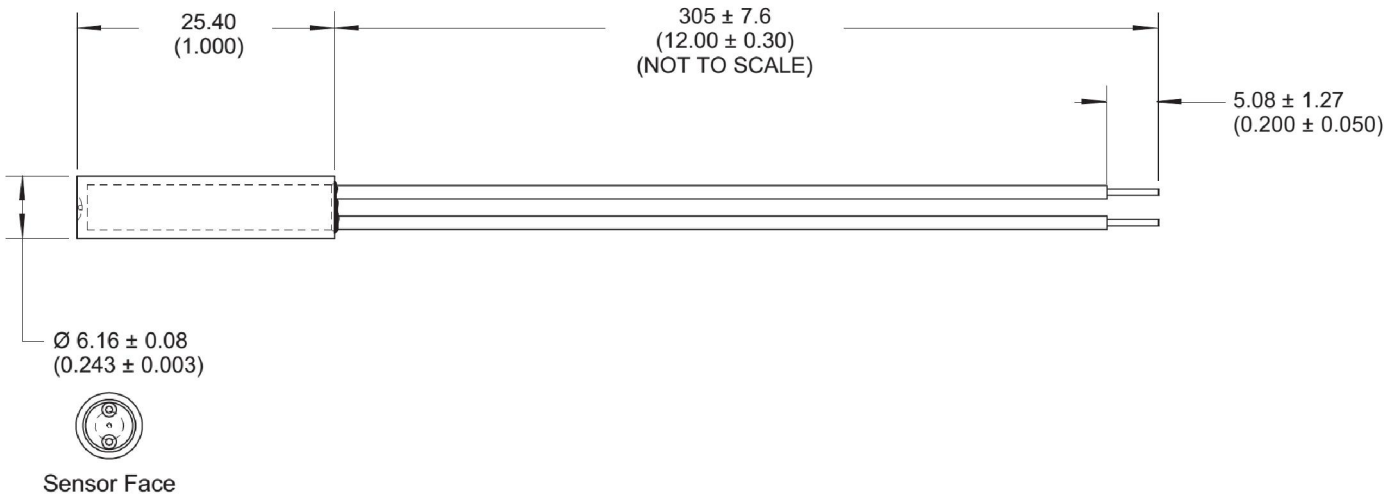
Products

| Part Number | Contact Form | Maximum Power Rating | Maximum Switching Voltage | Maximum Switching Current | Maximum Contact Resistance |
|-------------|-------------------|----------------------|---------------------------|---------------------------|----------------------------|
| MP201701 | SPST-NO Form A | 10 W | 175 VAC/VDC | 0.5 A | 0.200 Ω |
| MP201702 | SPST-NC Form B | 3 W | 30 VAC/VDC | 0.2 A | 0.100 Ω |
| MP201703 | SPDT-CO Form C | 3 W | 30 VAC/VDC | 0.2 A | 0.100 Ω |

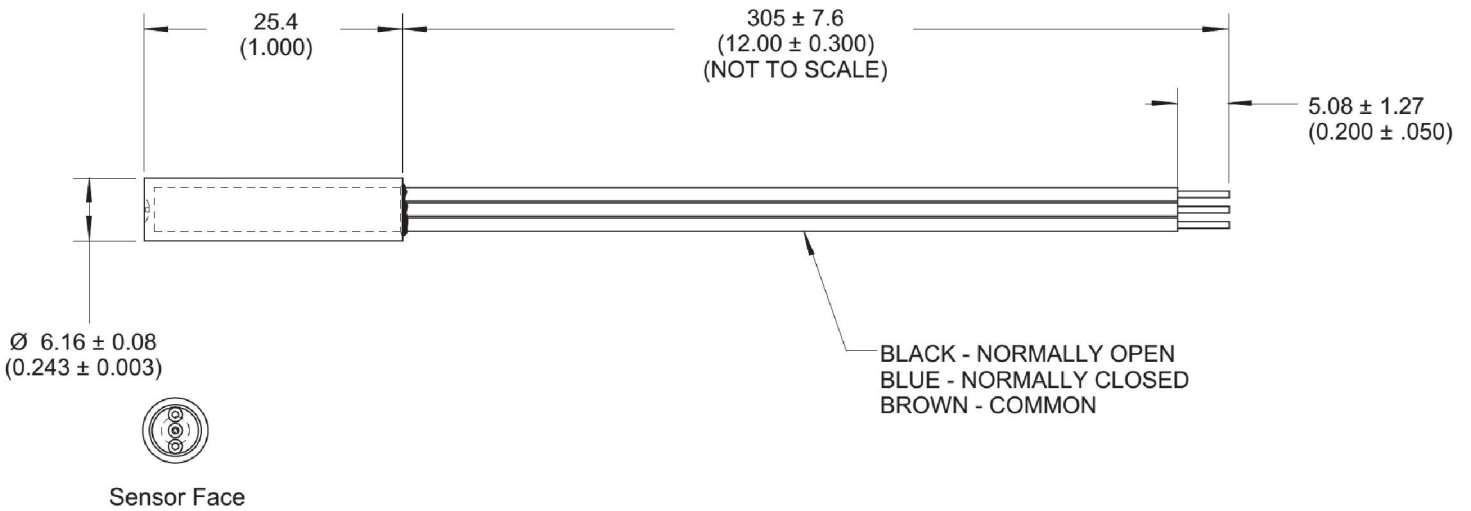
All MP2017 sensors come with leads 24 AWG x 305 mm (12")

Dimensions mm (inches)

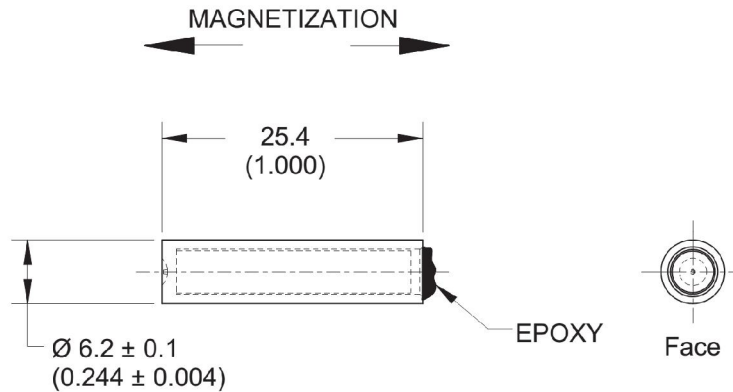
MP201701 (Form A - N.O.) and MP201702 (Form B - N.C.)



MP201703 (Form C - SPDT Changeover)



MAGNETIC ACTUATOR AS201701



ALNICO 8 MAGNET, VALOX 420 SEO CAPSULE