# **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.

**Typical Applications** 

Limit switch

Flow/speed

Home security

Pedal switch

Door position & interlock

#### 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")

#### **Environmental Specifications**

| Vibration             | 20 g 10 Hz to 1 kHz (MP201701),<br>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*<br>*with AS201701 magnetic actuator | 3.81 mm – 12.7 mm (0.15" – 0.5") |

#### Products

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

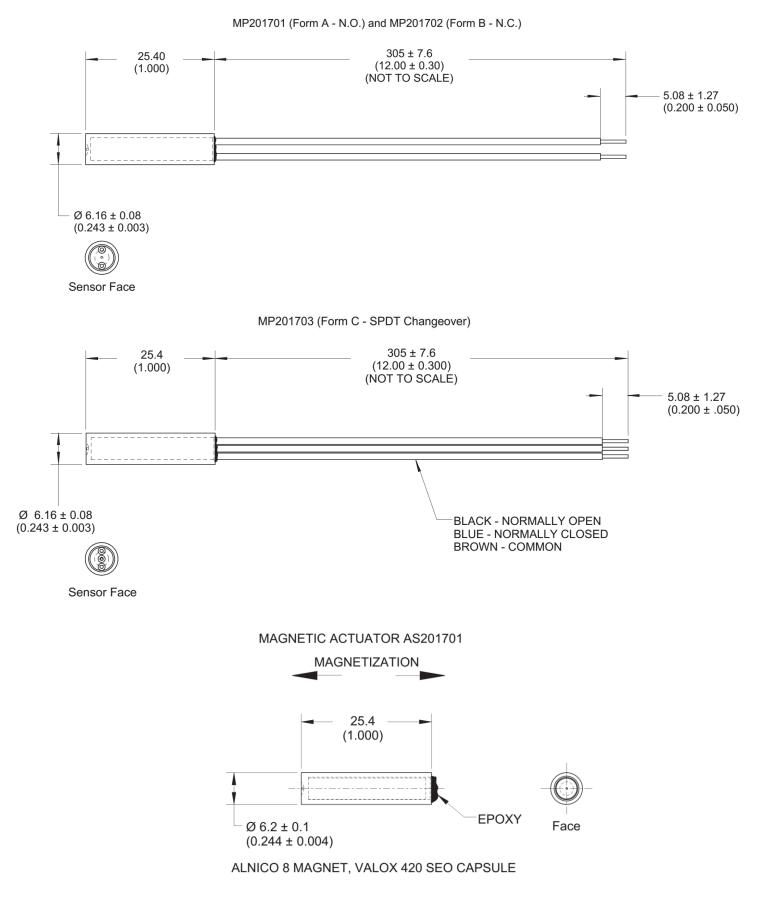
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#### **Dimensions mm (inches)**





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