# **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* *with AS201701 magnetic actuator	3.81 mm – 12.7 mm (0.15" – 0.5")

#### **Products**

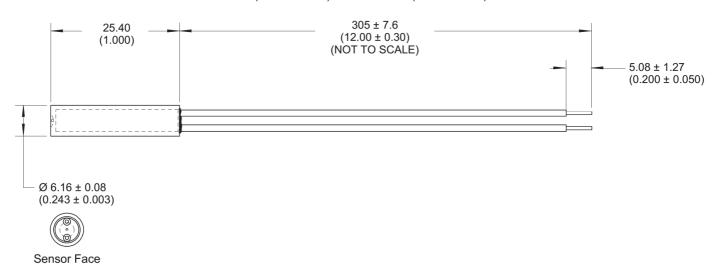
Part Number	Contact Form	Maximum Power Rating	Maximum Switching Voltage	Maximum Switching Current	Maximum Contact Resistance
MP201701	SPST-NO Form A	10 W	175 VAC/VDC	0.5 A	0.200 Ω
MP201702	SPST-NC Form B	3 W	30 VAC/VDC	0.2 A	0.100 Ω
MP201703	SPDT-CO Form C	3 W	30 VAC/VDC	0.2 A	0.100 Ω

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

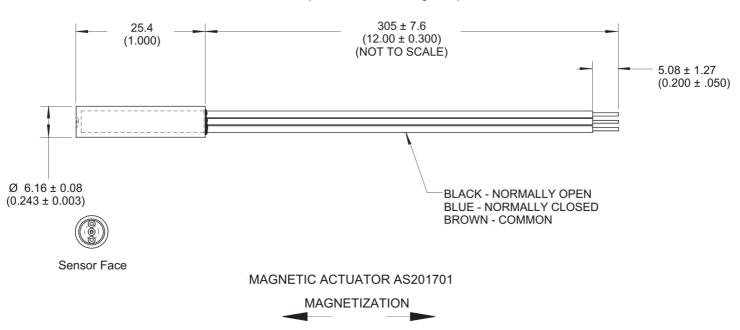


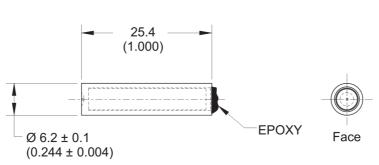
### **Dimensions mm (inches)**

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



MP201703 (Form C - SPDT Changeover)





ALNICO 8 MAGNET, VALOX 420 SEO CAPSULE

www.switches-sensors.zf.com ZF Electronics Systems Pleasant Prairie, LLC ("ZF") acquired the rights to the CHERRY branded switches and sensors in 2008. Although ZF divested its interest in the CHERRY name in 2015, the switches and sensors remain unchanged and are now sold under the ZF brand.



## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

# ZF Electronics:

MP201701 MP201703 MP201702