

# 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

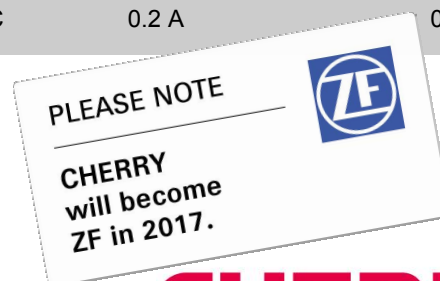
### Mechanical Specifications

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

### Products

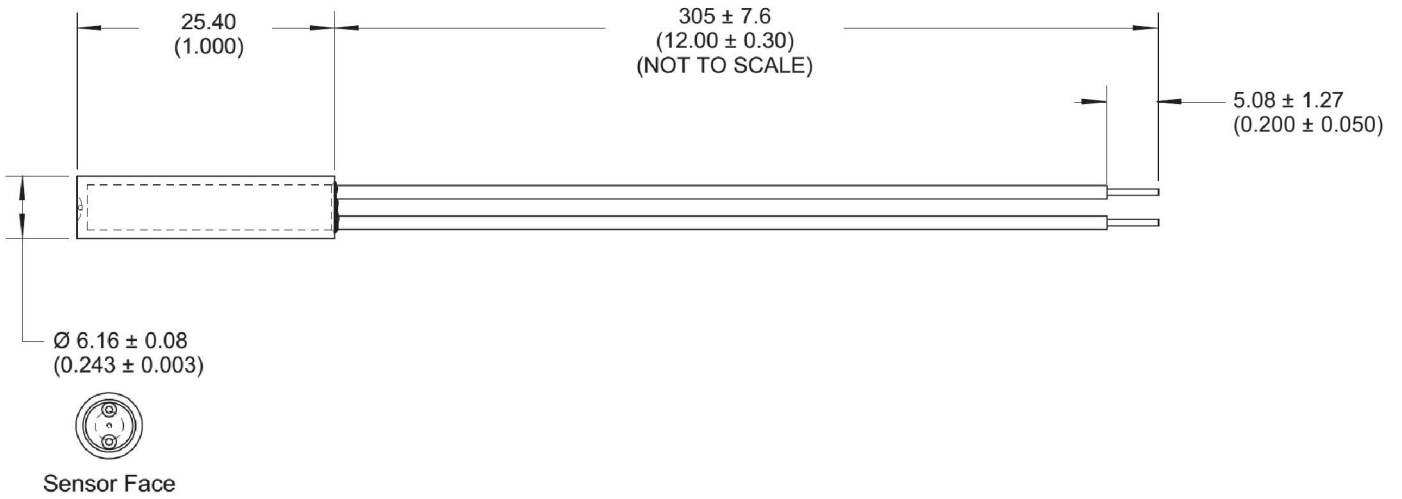
Part Number	Contact Form	Maximum Power Rating	Maximum Switching Voltage	Maximum Switching Current	Maximum Contact Resistance
MP201701	SPST-NO Form A	10 W	175 VAC/VDC	0.5 A	0.200 Ω
MP201702	SPST-NC Form B	3 W	30 VAC/VDC	0.2 A	0.100 Ω
MP201703	SPDT-CO Form C	3 W	30 VAC/VDC	0.2 A	0.100 Ω

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

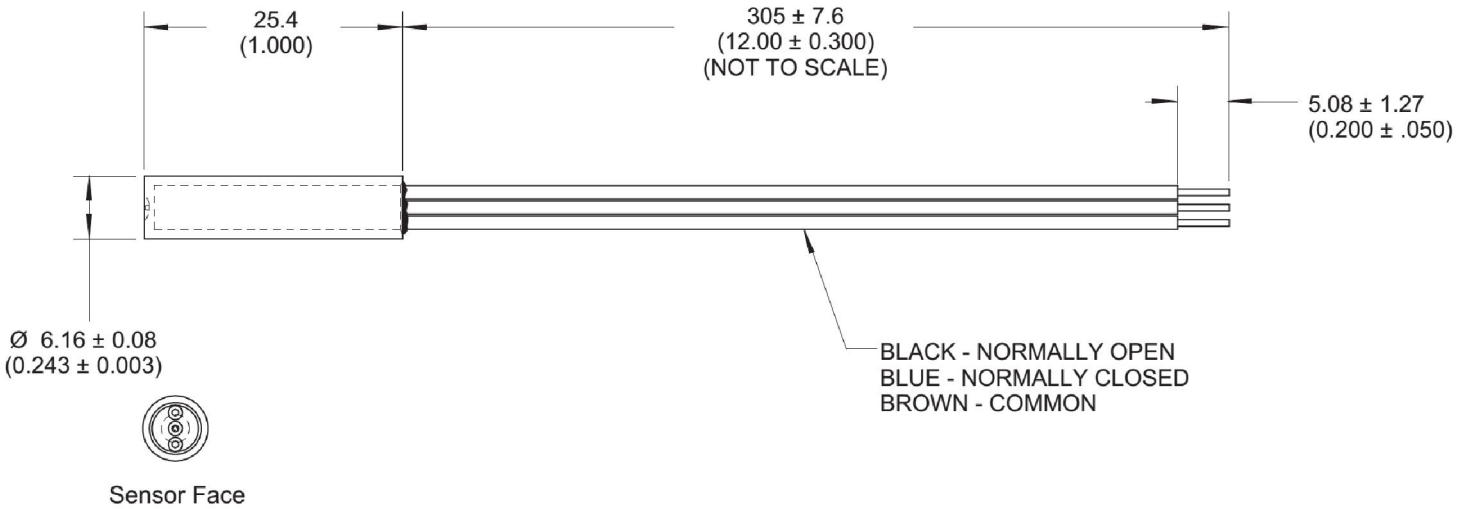


**Dimensions mm (inches)**

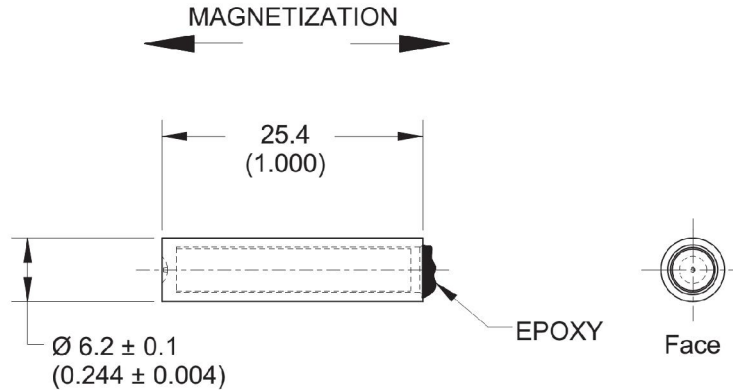
MP201701 (Form A - N.O.) and MP201702 (Form B - N.C.)



MP201703 (Form C - SPDT Changeover)



MAGNETIC ACTUATOR AS201701



ALNICO 8 MAGNET, VALOX 420 SEO CAPSULE