

Magnetic Proximity Sensors (Reed)



MP2007 Sensors

Reed based magnetic proximity sensor
in aluminum threaded housing

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
- Mounting hardware included
- 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 (MP200701), 20 g 10 Hz to 55 Hz (MP200702, MP200703) |
| 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 | Aluminium |
| Maximum Installation Torque Limit | 5.65 Nm (50 in lb) on threads |
| Operate/Release Distances* | 3.81 mm – 12.7 mm (0.15" – 0.5") |
| *with AS101001 magnetic actuator | |

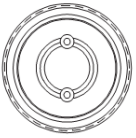
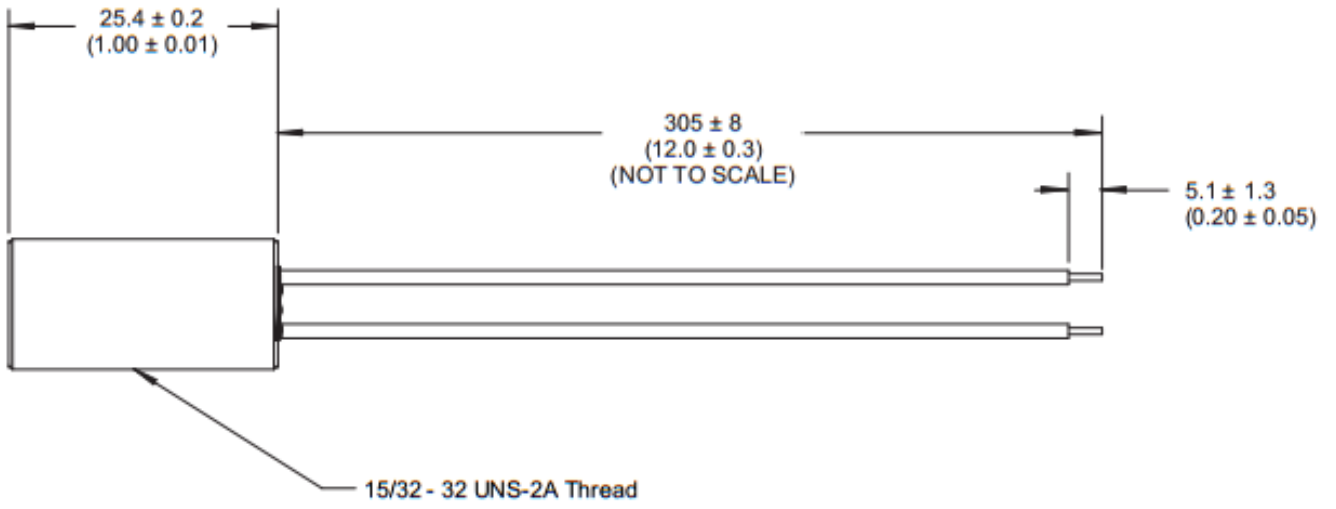
Products

| Part Number | Contact Form | Maximum Power Rating | Maximum Switching Voltage | Maximum Switching Current | Maximum Contact Resistance |
|-------------|----------------|----------------------|---------------------------|---------------------------|----------------------------|
| MP200701 | SPST-NO Form A | 10 W | 175 VAC/VDC | 0.5 A | 0.200 Ω |
| MP200702 | SPST-NC Form B | 3 W | 30 VAC/VDC | 0.2 A | 0.100 Ω |
| MP200703 | SPDT-CO Form C | 3 W | 30 VAC/VDC | 0.2 A | 0.100 Ω |

All MP2007 sensors come with leads 24 AWG x 305 mm (12")

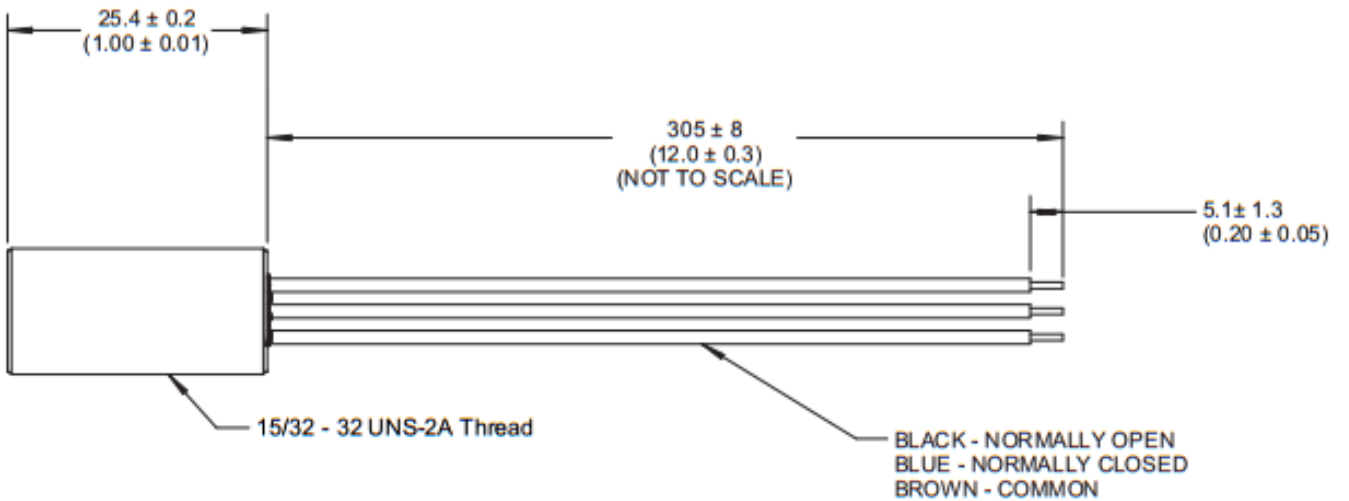
Dimensions mm (inches)

MP200701 (Form A – N.O. and MP200702 (Form B – N.C.)



Sensor Face

MP200703 (Form C – SPDT Changeover)



Sensor Face