

# 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),<br>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  |                                  |

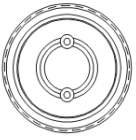
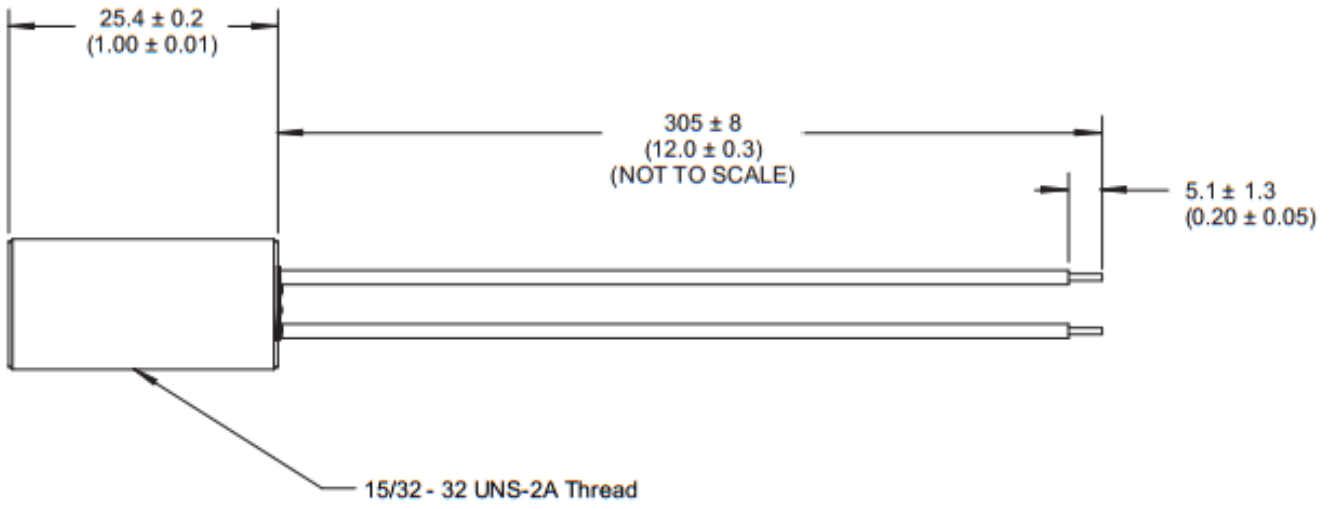
### Products

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

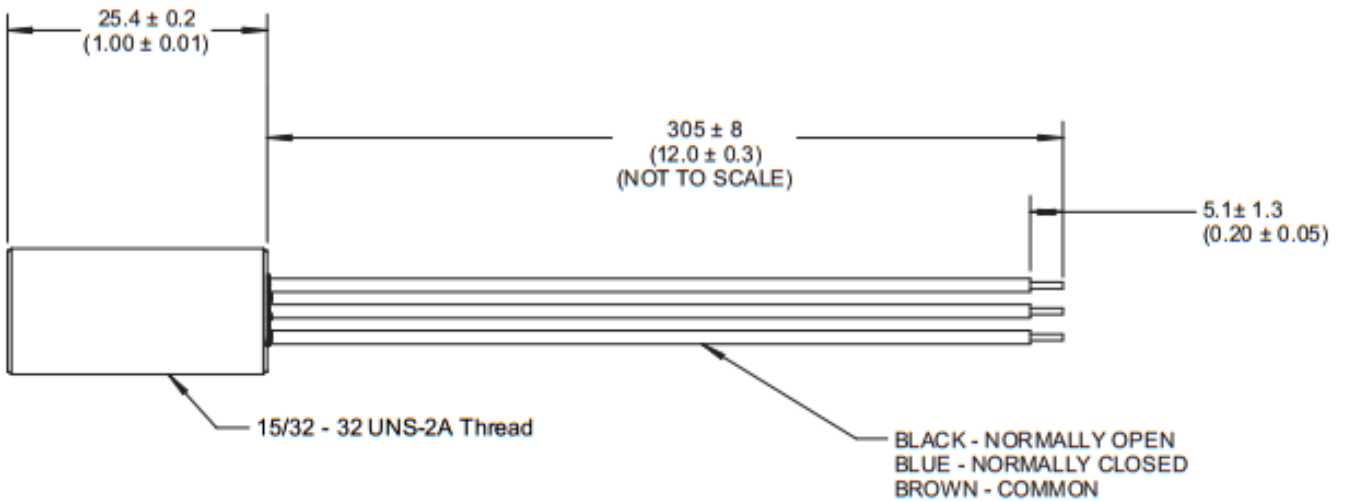
### Dimensions mm (inches)

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



Sensor Face

MP200703 (Form C – SPDT Changeover)



Sensor Face