

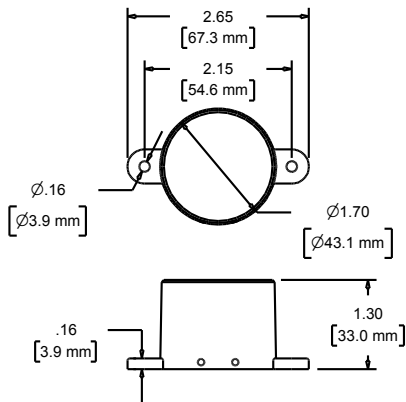


T3-B-LS

**Mechanical and Electrical Specifications**

- Poles and Circuits: SPST (ON/OFF)
- Max Current: 0.25A
- Max Voltage: 30VDC Resistive
- Max Power: 0.24 W
- Mechanical Life: 1 Million operations (Typical)
- Angles of Operation:
  - 11 degrees above horizontal typical actuation
  - 6 degrees above horizontal typical return
- Return to resting state response time:
  - 2.5s Typical
  - 9s Max Typical (Gyrational Disturbance)

**Dimensions**



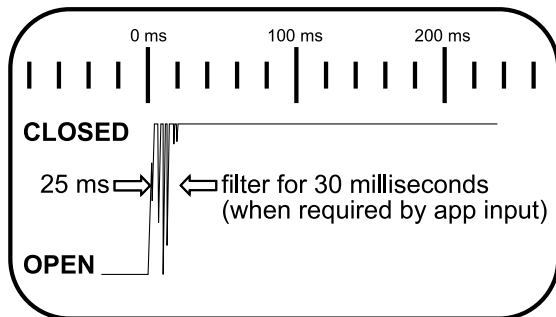
**Materials**

- Housing: sealed black ABS (Flame Rated: 94HB min)
- Wire Leads: 2x 20 AWG stranded black SXL insulated

**Environmental Specifications**

- Operating Temperature Range: -40°F / -40°C to 165°F / 74°C
- Humidity: Outdoor, not to be submerged
- Magnetic Field: Performs normally in weak or absent magnetic fields. Operation is not affected by ferrous environments

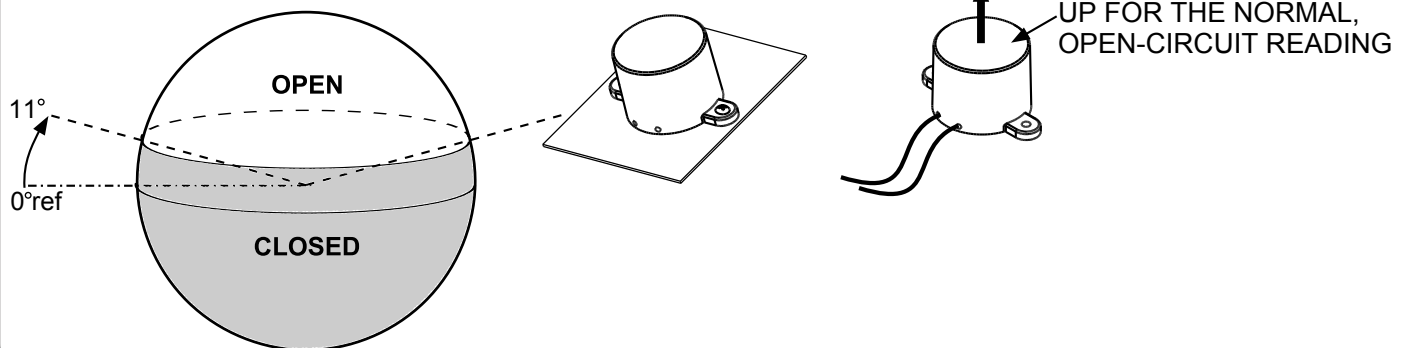
**Signal Debounce**



**Features**

- RoHS Compliant
- Non-Mercury Switch
- Industrial Grade
- No standby power consumption
- Magnetic switching improves vibratory contact stability over non-mercury alternatives

**Angles of Operation**



**Ready to install "as-is" for industrial environments**

**Mounting**

Mount using 2 pan-head screws, size #6 or 3.5mm. Alternatively, double-sided mounting tape may be used where conditions permit (ex: automotive trim grade). Universal mounting bracket(s) sold separately (p/n:1608)

**Mounting Site**

Mounting the switch near the expected tilt fulcrum will provide the most responsive reading. Mounting the switch far from the fulcrum will increase undesired centrifugal effects on the switch in quick-moving applications.

**Debounce Techniques**

Some applications may require contact debounce filtering, necessary for coping with the contact bounce of nearly any mechanical switch or pushbutton. For digital inputs, a debounce filter may be applied via software programming or by using a hardware low-pass filter. Please check your controller documentation; debounce filtering may already be available as a default. For analog applications, a hardware filter can be included in the circuit. Many detailed resources can be found online by searching using terms: CONTACT DEBOUNCE FILTER CIRCUIT

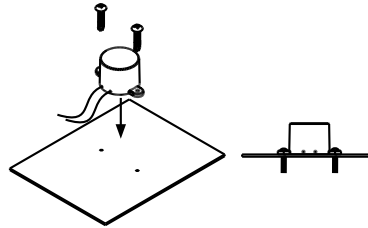
**Application Notes**

1. Magnasphere's tilt sensor is a switch, which provides great potential for power savings to wireless devices and stand-by systems.
2. This switch is constructed to be install-ready for industrial and outdoor equipment.
3. Wireless tilt sensing available for alarm panels and other applications: Contact Magnasphere details
4. The T3 will also sense disturbance, sudden movement along the mounting plane. Digital controller filters can nullify this attribute if only tilt sensing is desired.
5. Control loads above the maximum ratings by using a diode-protected or solid-state relay.
6. If the level position is meant to be normal condition for the panel input, insure the controller can (and is set to) accept open circuit as normal.

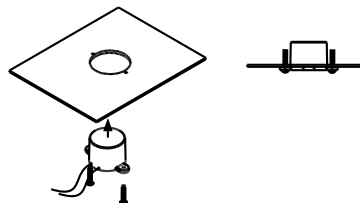
**Ideal Uses Include:**

- ATM tilt and disturbance
- Manhole cover and hatch disturbance
- Secure container, vitrine, and vault disturbance & tip
- Vending machine and appliance tip
- Compressors, pumps, power equipment, chemical container, and coolant compressor tip-over
- Heavy equipment stabilizer level indication and control interlock
- Showpiece disturbance & tip
- Auxiliary wireless input for alarm panels, home automation, and remote indication services
- Agricultural equipment: boom, hopper, loader, tank position

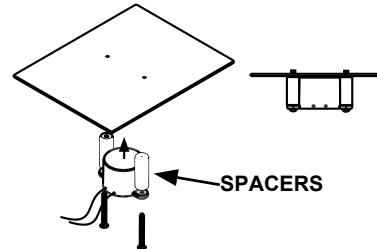
**SURFACE MOUNT:  
FASTENERS OR DOUBLE-  
SIDED MOUNTING TAPE**



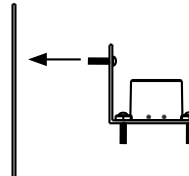
**PANEL MOUNT  
THROUGH**



**PANEL MOUNT  
UNDER**



**USE AN ANGLE  
BRACKET FOR  
VERTICAL  
SURFACES**



**UNIVERSAL BRACKET(S) - P/N: 1608  
(sold separately)**

For complex mounting scenarios use universal brackets (p/n: 1608 sold separately). \* Two brackets can be used to achieve rotation in 3 axes, to nearly any compound angle.

