### Typical Motion Switch Characteristics

<table>
<thead>
<tr>
<th>STYLE:</th>
<th>TO-18</th>
<th>TO-5</th>
<th>TO-18</th>
<th>TO-18 Extended</th>
<th>TO-18 (Extended) With Formed Leads</th>
<th>TO-18 Hemispherical Linear Latching Contacts</th>
<th>TO-5 (Extended)</th>
<th>TO-5 Linear Latching Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE:</td>
<td>Impact Hemispherically Sensitive 25g to 250g</td>
<td>Tilt, Motion</td>
<td>Motion, Turnover</td>
<td>Turnover</td>
<td>Linear Acceleration Linear Latching Contacts 1.0g to 2,000g</td>
<td>Linear Acceleration Planar Acceleration 2g to 4,000g Open 2g to 16,000g Closed</td>
<td>Linear Acceleration Planar Acceleration 0.3g to 100g</td>
<td>Linear Latching Contacts Linear Acceleration</td>
</tr>
<tr>
<td>FEATURES:</td>
<td>Normally Open Contacts</td>
<td>Normally Open</td>
<td>Normally Open</td>
<td>Normally Open</td>
<td>Normally Open</td>
<td>Normally Open</td>
<td>Normally Open</td>
<td>Normally Open</td>
</tr>
<tr>
<td>CONTACT RATING:</td>
<td>200MA Continuous 10 mA to 1.0A (Other Values Available)</td>
<td>50 mA to 500 mA (Other Values Available)</td>
<td>50 mA to 500 mA (Other Values Available)</td>
<td>10 mA to 1.0A (Other Values Available)</td>
<td>10 mA to 1.0A (Other Values Available)</td>
<td>10 mA to 1.0A (Other Values Available)</td>
<td>10 mA to 1.0A (Other Values Available)</td>
<td></td>
</tr>
<tr>
<td>CONTACT RESISTANCE:</td>
<td>10 ohm (Other Values Available)</td>
<td>10 ohm (Other Values Available)</td>
<td>10 ohm (Other Values Available)</td>
<td>10 ohm (Other Values Available)</td>
<td>10 ohm (Other Values Available)</td>
<td>10 ohm (Other Values Available)</td>
<td>10 ohm (Other Values Available)</td>
<td></td>
</tr>
<tr>
<td>SEAL:</td>
<td>Hermetic 1X10^5 sccs max. He @ 1 atm</td>
<td>Hermetic 1X10^5 sccs max. He @ 1 atm</td>
<td>Hermetic 1X10^5 sccs max. He @ 1 atm</td>
<td>Hermetic 1X10^5 sccs max. He @ 1 atm</td>
<td>Hermetic 1X10^5 sccs max. He @ 1 atm</td>
<td>Hermetic 1X10^5 sccs max. He @ 1 atm</td>
<td>Hermetic 1X10^5 sccs max. He @ 1 atm</td>
<td></td>
</tr>
<tr>
<td>OPTIONS:</td>
<td>Axial Leads, Straight or Formed</td>
<td>Axial or Coplanar Leads Straight or Formed</td>
<td>Axial or Coplanar Leads Straight or Formed</td>
<td>Axial or Coplanar Leads Straight or Formed</td>
<td>Axial or Coplanar Leads Straight or Formed</td>
<td>Axial or Coplanar Leads Straight or Formed</td>
<td>Axial or Coplanar Leads Straight or Formed</td>
<td></td>
</tr>
</tbody>
</table>

CIRCOR Aerospace, Inc./Aerodyne Controls’ Motion Switch family are specification qualified, hermetically sealed, as light as 0.5 grams and designed for use in applications where reliability, weight and size are critical.

Call for application engineering assistance for specific Motion Switch Requirements.

Sensitivities from fractions of a g to thousands of g’s are available for the following applications in damped and undamped, momentary latching and latching - resettable, N/O and N/C configurations:

- Acceleration
- Impact
- Spin
- Latching
- Linear
- Planar
- Hemispherically
- Negative G
- G-Time Product
- ELT
- Velocity
- Tilt
- Turnover
- Trembler
- Disturbance
TO-5 ("Coned")  TO-18 ("Dimpled")  895 & 6895 Family of Switches for Cockpit Voice Recorders  Lightweight Enclosure

**STYLE:**
- TO-5 ("Coned")
- TO-18 ("Dimpled")

**TYPE:**
- Tilt
- Motion

**FEATURES:**
- Normally Open
- Normally Open
- Power Cut Off Upon Impact
- Normally Closed
- Normally Open
- Latching Relay

**CONTACT RATING:**
- 50 mA to 500 mA
  - (Other Values Available)
- 50 mA
  - (Other Values Available)
- 28VDC and 110VAC

**CONTACT RESISTANCE:**
- 10 ohm Typical
  - (Other Values Available)
- 10 ohm Typical
  - (Other Values Available)

**SEAL:**
- Hermetic
  - 1x10^6 sccs max.
  - He @ 1 atm
- Hermetic
  - 1x10^6 sccs max.
  - He @ 1 atm
- 895 Dust Sealed
- 6895 Environmentally Sealed

**OPTIONS:**
- Tilt Angle 20° - 60°
- More or Less Sensitivity by request
- MIL-STD Connector
- Various Mounting Configurations Available

---

**QUALITY CERTIFICATIONS**
- ISO 9001:2000
- AS9100B
- NASA NAS85399.4
- FAF 21.363 (N)
- ANSI 2540.1
- USA 4920
- FED-STD-209
- Boeing (D-6-8249)

**DEFENSE • AIRCRAFT • INDUSTRIAL**
**CUSTOM SOLUTIONS AVAILABLE**

425 East Rabro Drive, Ste 100
Hauppauge, New York 11788
United States
Tel +1 (631) 737-1900
Fax +1 (631) 737-1912
sales_aerodyne@circoraeospace.com
www.circoraeospace.com

---

**KINETIC SWITCHES**

**TYPICAL DISTURBANCE SWITCH CHARACTERISTICS**