# The Kinetic Switch Leader

For more than 50 years, CIRCOR Aerospace & Defense-New York (formerly Aerodyne Controls), has been the leader in innovative design, development and manufacturing of Kinetic Switches.

- > Innovative Design
- > Development
- Manufacturing
- > Top Reliability

- > Hermetically Sealed
- > Extreme Fnvironments
- > <1g to 80,000g Max

# Military | Space | Commercial Aerospace

Ordnance Fuzes | Flight Recorders | Missiles | Guided and Unguided Rockets

Quality Cerfitications
AS9100C
ISO 9001:2008
Boeing D6-82479
IPC-A-610
RoHs Compliant



#### Custom Solutions are Available

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# Kinetic Switch Product Portfolio





Accelerating Growth in Aerospace & Defense

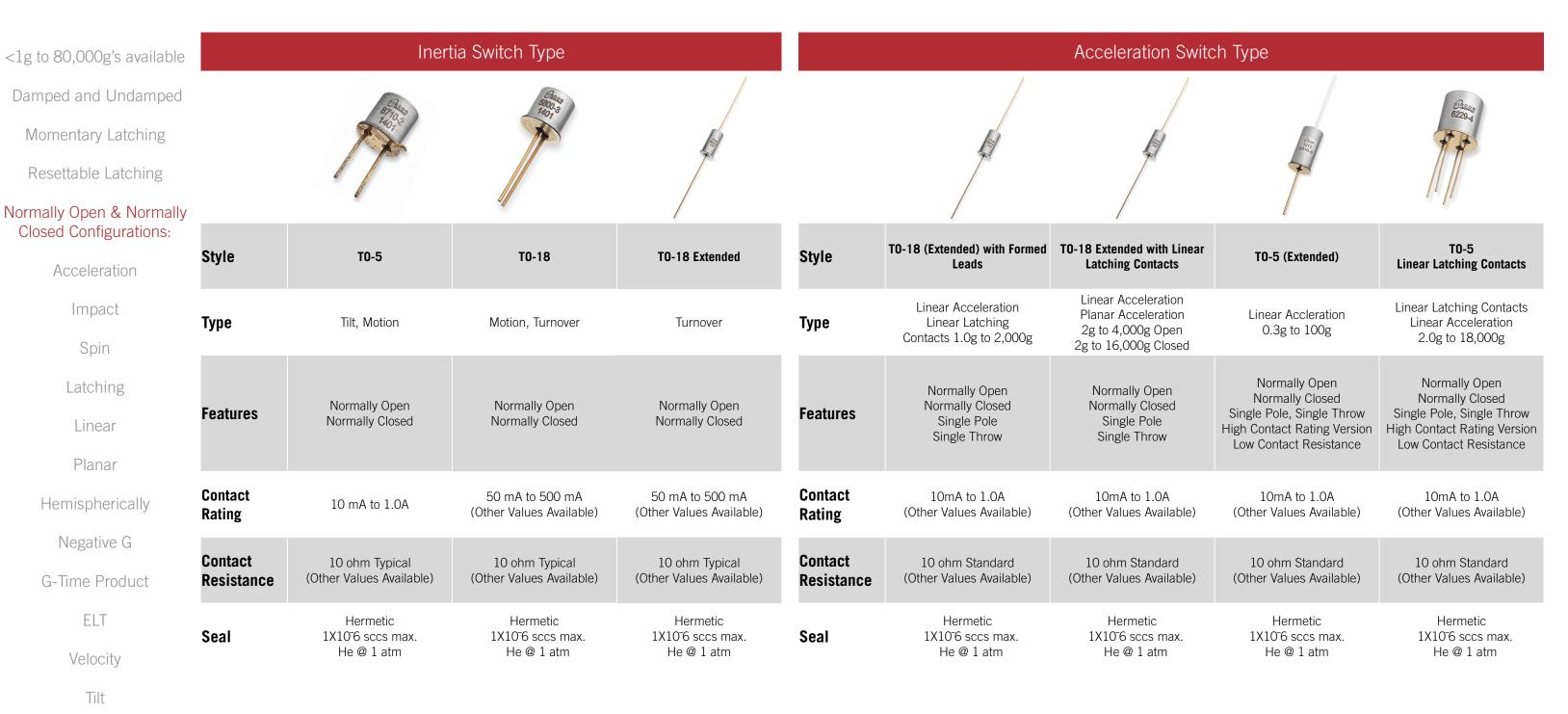
# Typical Interia Switch Characteristics

Turnover

Trembler

Disturbance

#### Typical Acceleration Switch Characteristics



The CIRCOR Aerospace & Defense Motion Switch family is specification qualified, hermetically sealed, as light as 0.5 grams and designed for use in applications where relilability, weight and size are critical.

### Typical Impact Switch Characteristics

#### Impact Switch Type









			V	
Style	T0-18	TO-5 ("Coned")	TO-18 ("Dimpled")	895 & 6895 Family of Switches for Cockpit Voice Recorders Lightweight Enclo- sure
Туре	Impact Hemispherically Sensitive 25g to 250g	Tilt	Motion	Impact 1.5g to 5.0g 2 to 3 Axis Sensing
Features	Normally Open Contacts	Normally Open	Normally Open	Power Cut Off Upon Impac Normally Closed Normally Open Latching Relay
Contact Rating	200MA Continuous	50 mA to 500 mA (Other Values Available)	50 mA (Other Values Available)	28VDC and 110VAC Resistive Load: 5amp @ 28VDC 5amp @ 110VAC
Contact Resistance	10 ohm	10 ohm Typical (Other Values Available)	10 ohm Typical (Other Values Available)	28VDC and 110VAC Resistive Load: 5amp @ 28VDC 5amp @ 110VAC

#### > Switch Types

Motion
Miniature
Acceleration
Crash
Impact
Tilt
Spin
Launch
Disturbance

#### ➤ Active Military

Hellfire II (patented)
Hellfire
SM-3 Missile
SM-2 Surface to Air Missile
Excalibur
GMLRS/MLRS
JDAM
Military Fusing
AIM-7 Sparrow
AIM-9X
Sea Sparrow
TOW

MK48 Torpedo

DAGR JAGM APKWS

FMU-139 Bomb Fuse FMU-143 Fuze

FMU-152 Joint Programmable Fuze

#### > Active Aircraft

Beechcraft Cessna Embraer Honda Bombardier



## CIRCOR Aerospace & Defense - New York Capabilities

- Laser Marking
- > 2D Product Barcoding
- 3D Printing
- > Rapid Prototyping
- CNC Machining for Rapid Prototyping
- > 80,000g Capable Centrifuges
- Engineering for Shock | Vibration | Lifecycle Testing | Accelerated Life Tests (Alts & Halts)
- ➤ Automatic Statistical Process Control (SPC) Data Collection
- Class 100 and Class 1000 Clean Room Capability
- Lean Manufacturing
- > Six Sigma