

## Components

### Tilt, Shock, Vibration, and Acceleration

- Zero-power and 50nA nano-power versions
- Industrial rated 10 year life, -40 to 85 °C
- Miniature to ultra miniature size
- Simple interface - no signal conditioning required
- SMT, RoHS & REACH compliant, lead free, Halogen free
- Made in USA - Fully automated production, 100% testing, worldwide quality and price leader
- Comes in various activation angles and g ranges



### Vibration Sensors

<p>chatters closed to open</p>	SQ-SEN-200	<p>chatters closed to open</p>	SQ-MIN-200
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### Tilt Sensors

<p>open <math>\theta^\circ</math> closed</p>	SQ-SEN-390		
<p>open <math>\theta^\circ</math> closed</p>	SQ-SEN-6xx	<p>open <math>-\theta^\circ</math> <math>+\theta^\circ</math> closed</p>	SQ-SEN-645B
<p>closed <math>\theta^\circ</math> open</p>	SQ-SEN-8xx	<p>closed <math>-\theta^\circ</math> <math>+\theta^\circ</math> open</p>	SQ-SEN-815B

### Shock and Acceleration Sensors


<p>closed open</p>	SQ-ASA	<p>closed open</p>	SQ-ASB/ASD
<p>closed open</p>	SQ-ASC	<p>open closed</p>	SQ-ASE

# Modules & Rugged Package


## Tilt, Shock, Vibration, and Acceleration

- Factory calibrated
- Simple interface
- Accurate and reliable
- Programmable damping, triggers and delays
- Solid state performance
- Serial, analog and on/off outputs
- CAN, RS485, RS232, 4-20mA, 0-5 V, IP67, ESD/EMI/RFI
- USA made

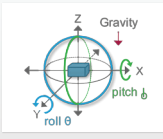
### MEMS Inclinometer



SQ-SI-



SQ-SI2X-




### Programmable MEMS Tilt Switch



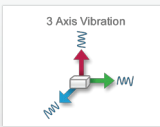
SQ-PTS




### MEMS Vibration Sensor




SQ-SVS




RMS Vibration

0.521 in/s

FFT Spectrum




### MEMS Accelerometer




SQ-XLD



Shock




Vibration



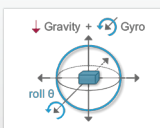
Tilt



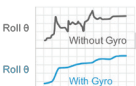
### GIX



SQ-GIX



Roll  $\theta$



Without Gyro

With Gyro

### Rugged Package Sensor



SQ-RPS



X, Y, Z Acceleration



Pitch, Roll, Yaw Angular Rate

