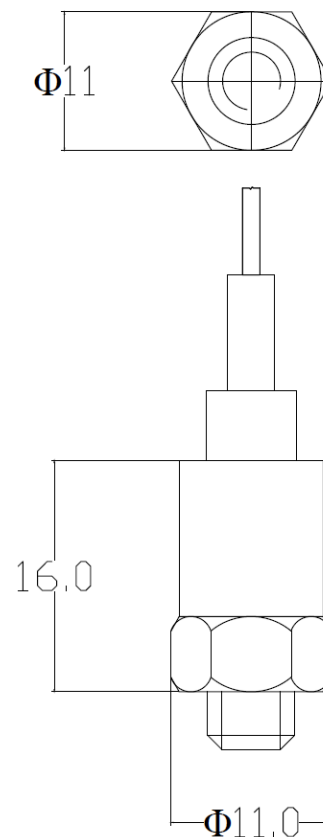


- Shock Piezoelectric Accelerometer
- Shear design
- Piezoelectric ceramic PZT-5
- Sensitivity – 1pC/g
- Range  $\pm 5,000g$
- -55 to +160°C
- 1m Integral cable
- 6.5grams

The CS-5K is a monoaxial piezoelectric charge output accelerometer specifically developed for shock testing applications at elevated temperatures. With a measurement range of  $\pm 5,000g$  it is well suited to harsh environment applications. The integral cable ensures minimal electrical connection issues and a reliable response.

Kemo offers a range of low noise extension cables for use with the CS-5K in addition to low noise charge amplifier solutions for conversion of the charge output to voltage.

| Specification                 | Metric                                    | Imperial         |
|-------------------------------|-------------------------------------------|------------------|
| Sensitivity                   | 0.10pC/(m/s <sup>2</sup> )                | 1pC/g            |
| Measurement Range (pk)        | $\pm 49000m/s^2$                          | $\pm 5000g$      |
| Frequency Range $\pm 10\%$    | 18000 Hz                                  |                  |
| Resonant Frequency            | $\geq 75$ kHz                             |                  |
| Non-Linearity                 | $\leq 1$ %                                |                  |
| Transverse Sensitivity        | $\leq 5$ %                                |                  |
| Overload Limit (Shock)        | $\pm 147,000(m/s^2)pk$                    | $\pm 15000gpk$   |
| Operating Temp. Range         | -55 to +160°C                             | -67 to +320°F    |
| Isolation                     | Case isolated                             |                  |
| Capacitance                   | 850pF                                     |                  |
| Isolation Impedance           | $\geq 100G\Omega$                         |                  |
| Size (excluding connector)    | 11(A/F)x16mm                              | 0.43"(A/F)x0.63" |
| Weight                        | 6.5gm                                     | 0.23oz           |
| Sensing Geometry              | Shear                                     |                  |
| Sensing Element Material      | PZT-5                                     |                  |
| Case Material                 | Titanium                                  |                  |
| Connector Position            | Top                                       |                  |
| Case sealing                  | Laser Welded                              |                  |
| Electrical Connection Type    | 1m Int. cable with 10/32UNF microdot plug |                  |
| Mounting Thread (tapped base) | M6 x 0.75                                 |                  |
| Mounting Torque               | 3Nm                                       | 26in/lb          |



It is recommended that the CS-5K is used with a low noise cable from Kemo's range to reduce triboelectric noise.

11A2-30 – 3m(10ft) 10/32UNF microdot socket to BNC plug  
 11A2-50 – 5m(15ft) 10/32UNF microdot socket to BNC plug  
 11A1-30 – 3m(10ft) 10/32UNFmdot socket to 10/32UNFmdot  
 11A1-50 – 5m(15ft) 10/32UNFmdot socket to 10/32UNFmdot

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