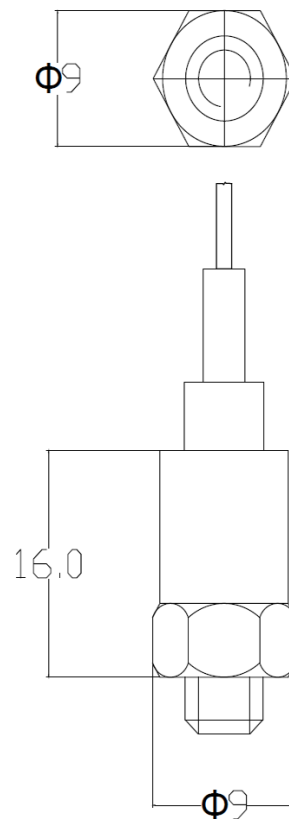


- Shock Piezoelectric Accelerometer
- Shear design
- Piezoelectric ceramic PZT-5
- Sensitivity – 0.10pC/g
- Range $\pm 50,000g$
- -55 to +160°C
- 1m Integral cable
- 6.5grams

The CS-50K is a monoaxial piezoelectric charge output accelerometer specifically developed for shock testing applications at elevated temperatures. With a measurement range of $\pm 50,000g$ 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-50K in addition to low noise charge amplifier solutions for conversion of the charge output to voltage.

Specification	Metric	Imperial
Sensitivity	0.01pC/(m/s ²)	0.10pC/g
Measurement Range (pk)	$\pm 490000m/s^2$	$\pm 50000g$
Frequency Range $\pm 10\%$	20000 Hz	
Resonant Frequency	≥ 75 kHz	
Non-Linearity	≤ 1 %	
Transverse Sensitivity	≤ 5 %	
Overload Limit (Shock)	$\pm 784,000(m/s^2)pk$	$\pm 80000gpk$
Operating Temp. Range	-55 to +160°C	-67 to +320°F
Isolation	Case isolated	
Capacitance	850pF	
Isolation Impedance	$\geq 100G\Omega$	
Size (excluding connector)	9(A/F)x16mm	0.35"(A/F)x0.63"
Weight	4.5gm	0.16oz
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-50K 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

Kemo Limited

First Floor, 33 King Street, Thetford, Norfolk, IP24 2AW, United Kingdom
 +44 (0)1474 705168

www.kemo.com sales@kemo.com

Iss.2 – August 2026