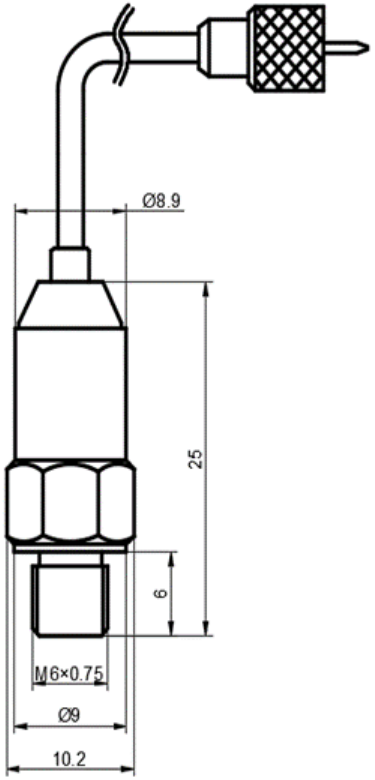
CS-100K

Shock Piezoelectric Charge Accelerometer ±100,000g

- Shock Piezoelectric Accelerometer
- Shear design
- Piezoelectric ceramic PZT-5
- Sensitivity – 0.05pC/g
- Range ±100,000g
- 0.5m Integral cable
- Use with a Low noise cable

The CS-100K is a monoaxial piezoelectric charge output accelerometer specifically developed for shock testing applications. With a measurement range of ±100,000g 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-100K in addition to low noise charge amplifier solutions for conversion of the charge output to voltage.

Specification	Metric	Imperial
Sensitivity	0.005pC/(m/s²)	0.05pC/g
Measurement Range (pk)	±980,000m/s²	±100000g
Frequency Range ±10%	11000 Hz	
Resonant Frequency	≥45 kHz	
Non-Linearity	≤1 %	
Transverse Sensitivity	≤5 %	
Overload Limit (Shock)	±1,274,000(m/s²)pk	±130000gpk
Operating Temp. Range	-40 to +85°C	-40 to +185°F
Isolation	Case isolated	
Capacitance	90pF	
Isolation Impedance	≥100GΩ	
Size (excluding connector)	10.2(A/F)x19mm	0.40”(A/F)x0.75”
Weight	4.3gm	0.15oz
Sensing Geometry	Shear	
Sensing Element Material	PZT-5	
Case Material	Titanium	
Connector Position	Top	
Case sealing	Welded	
Electrical Connection Type	0.5m 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-100K 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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