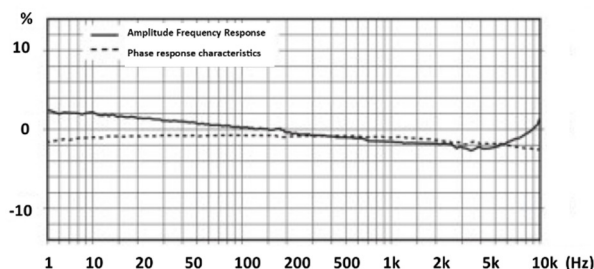
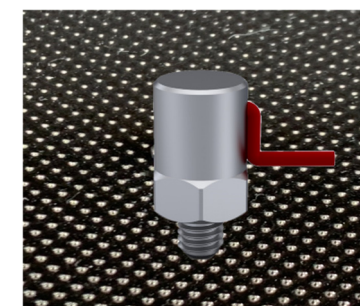
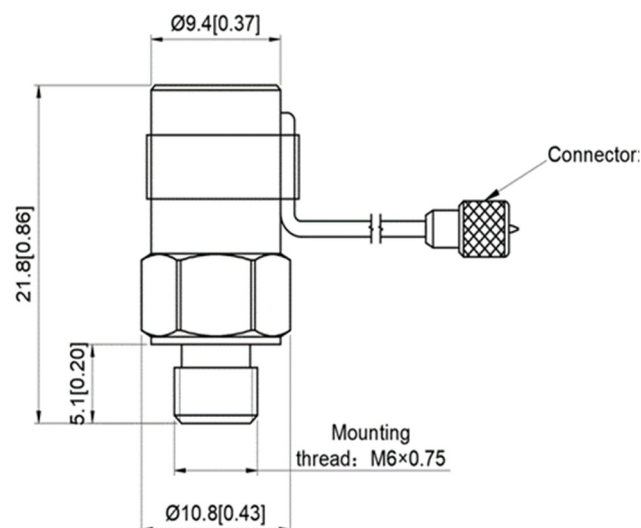


- Shock IEPE Accelerometer
- Shear design
- Piezoelectric ceramic PZT-5
- Range ±50000g
- Mass – 5.5grams
- 0.5m int. cable with 10/32 Mdot plug
- M6 x 0.75 integral stud

The VS-50K is an IEPE shock accelerometer offering dedicated shock measurement capability. With a ±50000g range the VS-50K combines the flexibility of IEPE (Integrated Electronics Piezoelectric) technology with the reliability of a robust titanium fully welded construction.

Kemo can also offer cables and signal conditioning solutions for use with their full range of accelerometers.

| Specification               | Metric                                      | Imperial       |
|-----------------------------|---|----------------|
| Sensitivity                 | 0.0102mV/(m/s <sup>2</sup> )                | 0.1mV/g        |
| Measurement Range (pk)      | ±490000m/s <sup>2</sup>                     | ±50000g        |
| Frequency Range ±10%        | 1 to 10000 Hz                               |                |
| Resonant Frequency          | ≥30 kHz                                     |                |
| Non-Linearity               | ≤1 %  |                |
| Transverse Sensitivity      | ≤5 %  |                |
| Overload Limit (Shock)      | ±588,000(m/s <sup>2</sup> )pk               | ±60000gpk      |
| Operating Temp. Range       | -40 to +85°C                                | -40 to +185°F  |
| Polarity ↑                  | Positive                                    |                |
| Isolation                   | Case isolated                               |                |
| Compliance Voltage (Supply) | +18 to +28 VDC                              |                |
| Current range               | 2 – 10mA                                    |                |
| Output Bias Voltage         | 11VDC ± 1.5VDC                              |                |
| Output Impedance            | ≤100Ω                                       |                |
| Size (excluding connector)  | 10.8mmA/Fx16.7 mm                           | 0.43"A/Fx0.66" |
| Weight                      | 5.5gm                                       | 0.19oz         |
| Sensing Geometry            | Shear                                       |                |
| Sensing Element Material    | PZT-5                                       |                |
| Case Material               | Titanium                                    |                |
| Connector Position          | 0.5m Int. cable with 10/32UNF Microdot Plug |                |
| Case sealing                | Hermetic                                    |                |
| Electrical Connection Type  | 10-32UNF Microdot plug                      |                |
| Mounting                    | M6 x 0.75 integral stud                     |                |



Kemo has a range of cable assemblies available for use with the VS-50K and other IEPE accelerometers.

- 1B2-30 – 3m(10ft) 10/32UNF microdot to BNC plug
- 1B2-50 – 5m(15ft) 10/32UNF microdot to BNC plug
- 1B1-30 – 3m(10ft) 10/32UNFmdot to 10/32UNFmdot
- 1B1-50 – 5m(15ft) 10/32UNFmdot to 10/32UNFmdot

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