

AC117 Series

High G Measurement Accelerometer, Top Exit 2 Pin Connector, 50 mV/g, ±10%

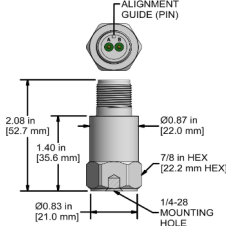


Product Features

- 50 mV/g General Purpose Sensor
- Excellent for Higher g Applications
- ▶ ±100 g, Dynamic Range
  - ▶ 50 mV/g, ±10% Sensitivity
  - ▶ 1,0-12500 Hz (60-750,000 CPM)

AC117-1A  
2 Pin Connector

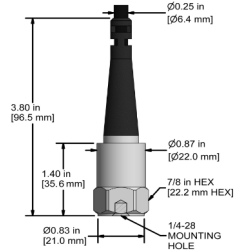
| Connector | Polarity         |
|-----------|------------------|
| Pin       |                  |
| A         | (+) Signal/Power |
| B         | (-) Common       |



Stock Product

AC117-2C  
CB103 Integral Cable

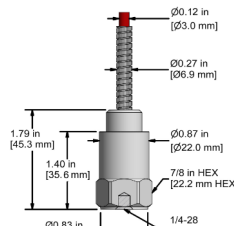
| Conductor | Polarity         |
|-----------|------------------|
| Red       | (+) Signal/Power |
| Black     | (-) Common       |
| Shield    | Cable Drain Wire |



Built To Order

AC117-3C  
CB206 Armored Integral Cable

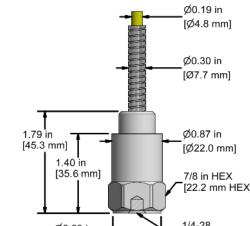
| Conductor | Polarity         |
|-----------|------------------|
| Red       | (+) Signal/Power |
| Black     | (-) Common       |
| Shield    | Cable Drain Wire |



Built To Order

AC117-6C  
CB611 Heavy Duty Armored Integral Cable

| Conductor | Polarity         |
|-----------|------------------|
| Red       | (+) Signal/Power |
| Black     | (-) Common       |
| Shield    | Cable Drain Wire |



Built To Order

| Specifications              | Standard                                 | Metric         | Specifications              | Standard                 | Metric        |
|-----------------------------|------------------------------------------|----------------|-----------------------------|--------------------------|---------------|
| Part Number                 | AC117                                    | M/ or M8/AC117 | Environmental               |                          |               |
| Sensitivity (±10%)          | 50 mV/g                                  |                | Operating Temperature Range | -58 to 250 °F            | -50 to 121 °C |
| Frequency Response (±3dB)   | 60-750,000 CPM                           | 1,0-12500 Hz   | Maximum Shock Protection    | 5,000 g, peak            |               |
| Frequency Response (±10%)   | 240-540,000 CPM                          | 4,0-9000 Hz    | Electromagnetic Sensitivity | CE                       |               |
| Dynamic Range               | ± 100 g, peak<br>*Vsource ≥ 22V, 12Vbias |                | Sealing                     | Welded, Hermetic         |               |
| Electrical                  |                                          |                | Submersible Depth           | 200 ft.                  | 60 m          |
| Settling Time               | <2 Seconds                               |                | SIL Rating                  | SIL 2                    |               |
| Voltage Source (IEPE)       | 18-30 VDC                                |                | Physical                    |                          |               |
| Constant Current Excitation | 2-10 mA                                  |                | Sensing Element             | PZT Ceramic              |               |
| Spectral Noise @ 10 Hz      | 8 µg/√Hz                                 |                | Sensing Structure           | Shear Mode               |               |
| Spectral Noise @ 100 Hz     | 2.5 µg/√Hz                               |                | Weight                      | 3.2 oz                   | 90 grams      |
| Spectral Noise @ 1000 Hz    | 1.7 µg/√Hz                               |                | Case Material               | 316L Stainless Steel     |               |
| Output Impedance            | <100 ohm                                 |                | Mounting Thread             | 1/4-28 Blind Tapped Hole |               |
| Bias Output Voltage         | 10-14 VDC                                |                | Connector (Non-Integral)    | 2 Pin MIL-C-5015         |               |
| Case Isolation              | >10 <sup>8</sup> ohm                     |                |                             |                          |               |