

# AC198 Series

Compact Multipurpose Accelerometer, Side Exit 2 Pin Connector,  
M8 Captive Bolt, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



## Product Features

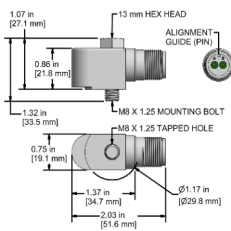
High Performance in an Affordable, Side Exit Compact Sensor

Very Low Noise and Superior RF Immunity

- ▶ 100 mV/g Sensitivity, ± 10%
- ▶ ± 80g Dynamic Range
- ▶ Standard 2 Pin MIL Connection on Non-Integral Option

### AC198-1D 2 Pin Conector

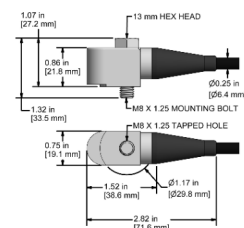
| Connector Pin | Polarity         |
|---------------|------------------|
| A             | (+) Signal/Power |
| B             | (-) Common       |



Stock Product

### AC198-2D CB103 Integral Cable

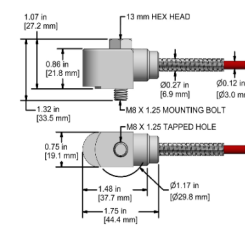
| Conductor | Polarity         |
|-----------|------------------|
| Red       | (+) Signal/Power |
| Black     | (-) Common       |
| Shield    | Cable Drain Wire |



Built To Order

### AC198-3D CB206 Armored Integral Cable

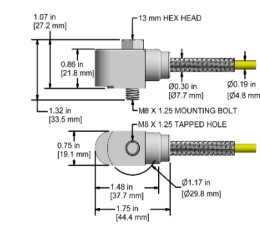
| Conductor | Polarity         |
|-----------|------------------|
| Red       | (+) Signal/Power |
| Black     | (-) Common       |
| Shield    | Cable Drain Wire |



Built To Order

### AC198-6D 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        |
|-----------------------------|----------------------|-------------|-----------------------------|----------------------|---------------|
| Sensitivity (±10%)          | 100 mV/g             |             | <b>Environmental</b>        |                      |               |
| Frequency Response (±3dB)   | 30-480,000 CPM       | 0.5-8000 Hz | Temperature Range           | -58 to 250°F         | -50 to 121°C  |
| Dynamic Range               | ± 80 g, peak         |             | Maximum Shock Protection    | 5,000 g, peak        |               |
| <b>Electrical</b>           |                      |             | Electromagnetic Sensitivity | CE                   |               |
| Settling Time               | <2 Seconds           |             | Sealing                     | Welded, Hermetic     |               |
| Voltage Source (IEPE)       | 18-30 VDC            |             | Submersible Depth           | 200 ft.              | 60 m          |
| Constant Current Excitation | 2-10 mA              |             | <b>Physical</b>             |                      |               |
| Spectral Noise @ 10 Hz      | 8 µg/√Hz             |             | Sensing Element             | PZT Ceramic          |               |
| Spectral Noise @ 100 Hz     | 4 µg/√Hz             |             | Sensing Structure           | Shear Mode           |               |
| Spectral Noise @ 1000 Hz    | 2 µg/√Hz             |             | Weight                      | 3.4 oz               | 96 grams      |
| Output Impedance            | <100 ohm             |             | Case Material               | 316L Stainless Steel |               |
| Bias Output Voltage         | 10-14 VDC            |             | Mounting                    | Captive Bolt         |               |
| Case Isolation              | >10 <sup>8</sup> ohm |             | Connector (Non-Integral)    | 2 Pin MIL-C-5015     |               |
|                             |                      |             | Resonant Frequency          | 1,380,000 CPM        | 23000 Hz      |
|                             |                      |             | Mounting Torque             | 2 to 5 ft. lbs.      | 2.7 to 6.8 Nm |
|                             |                      |             | Mounting Hardware           | M8 Captive Bolt      |               |
|                             |                      |             | Calibration Certificate     | CA10                 |               |

Typical Frequency Response