

AC184-M12A Series

Multipurpose Accelerometer, Side Exit M12 Connector, M8x1.25 Captive Bolt, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

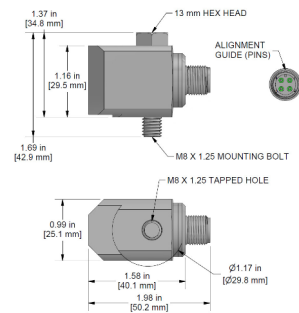
Perfect for M8 Mounting Applications
High Performance in a Low Cost Sensor

- ▶ 100 mV/g Sensitivity, ± 10%
- ▶ ± 80 g, peak Dynamic Range

AC184-M12A

4 Pin Connector

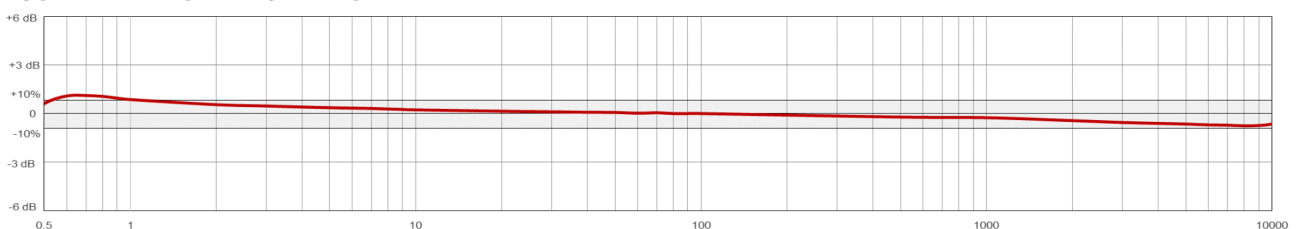
| Connector Pin | Polarity |
|---------------|------------------|
| Pin 1 | (+) Signal/Power |
| Pin 2 | (-) Common |
| Pin 3 | Not Used |
| Pin 4 | Not Used |



Stock Product

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|----------------------|---|-----------------------------|----------------------|----------------------|
| Sensitivity (±10%) | | 100 mV/g | Environmental | | |
| Frequency Response (±3dB) | 30-600,000 CPM | 0,5-10000 Hz | Operating Temperature Range | -58 to 250°F | -50 to 121°C |
| Frequency Response (±10%) | 120-300,000 CPM | 2,0-5000 Hz | Maximum Shock Protection | | 5,000 g, peak |
| Dynamic Range | | ± 80 g, peak *Vsource ≥ 22V, 12Vbias | Electromagnetic Sensitivity | | CE |
| Electrical | | | Sealing | | Welded, Hermetic |
| Settling Time | <2.5 seconds | | Submersible Depth | 200 ft. | 60 m |
| Voltage Source (IEPE) | 18-30 VDC | | SIL Rating | | SIL 2 |
| Constant Current Excitation | 2-10 mA | | Physical | | |
| Spectral Noise @ 10 Hz | 14 µg/√Hz | | Sensing Element | | PZT Ceramic |
| Spectral Noise @ 100 Hz | 2.3 µg/√Hz | | Sensing Structure | | Shear Mode |
| Spectral Noise @ 1000 Hz | 2 µg/√Hz | | Weight | 6 oz | 170 grams |
| Output Impedance | <100 ohm | | Case Material | | 316L Stainless Steel |
| Bias Output Voltage | 10-14 VDC | | Mounting Thread | | M8x1.25 |
| Case Isolation | >10 ⁸ ohm | | Connector (Non-Integral) | | 2 Pin MIL-C-5015 |
| | | | Resonant Frequency | 1,200,000 CPM | 20000 Hz |
| | | | Mounting Torque | 2 to 5 ft. lbs. | 2,7 to 6,8 Nm |
| | | | Mounting Hardware Supplied | M8x1.25 Captive Bolt | |
| | | | Calibration Certificate | | CA10 |

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

www.ctconline.com | sales@ctconline.com | 585-924-5900