

AC194-M12A Series

Compact Multipurpose Accelerometer, 4 Pin M12 Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

High Performance in an Affordable, Side Exit, Compact Sensor

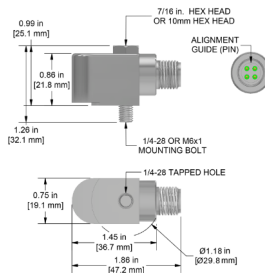
Very Low Noise and Superior RF Immunity

- ▶ 100 mV/g Sensitivity, ± 10%
- ▶ ± 80g Dynamic Range
- ▶ 4 Pin M12 Connector

AC194-M12A

4 Pin Connector

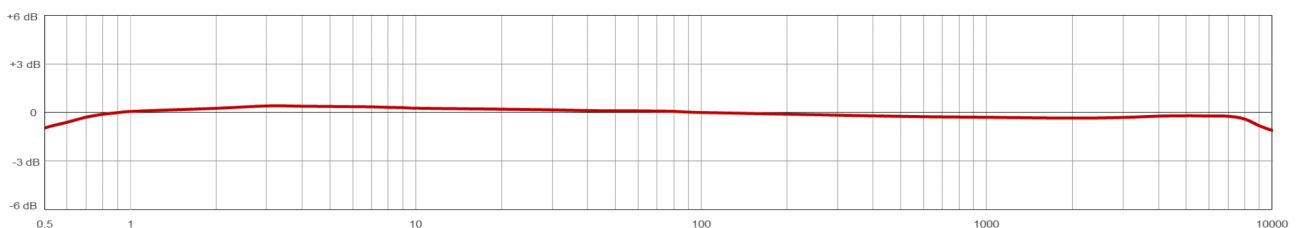
| Connector Pin | Polarity |
|---------------|------------------|
| 1 | (+) Signal/Power |
| 2 | (-) Common |
| 3 | Not Used |
| 4 | Not Used |



Stock Product

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|---|--------------|-----------------------------|----------------------|-------------------|
| Part Number | AC194-M12A | M/AC194-M12A | Environmental | | |
| Sensitivity (±10%) | 100 mV/g | | Operating Temperature Range | -58 to 250°F | -50 to 121°C |
| Frequency Response (±3dB) | 30-600,000 CPM | 0.5-10000 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 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 | 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 | 3.3 oz | 93 grams |
| Output Impedance | <100 ohm | | Case Material | 316L Stainless Steel | |
| Bias Output Voltage | 10-14 VDC | | Connector (Non-Integral) | 4 Pin M12 | |
| Case Isolation | >10 ⁸ ohm | | Resonant Frequency | 1,380,000 CPM | 23000 Hz |
| | | | Mounting Torque | 2 to 5 ft. lbs. | 2.7 to 6.8 Nm |
| | | | Mounting Hardware Supplied | 1/4-28 Captive Bolt | M6x1 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