

AC115-M12D Series



Low Cost Triaxial Accelerometer, Side Exit 4 Pin M12 Connector, 100 mV/g, $\pm 15\%$

VIBRATION ANALYSIS HARDWARE



Product Features

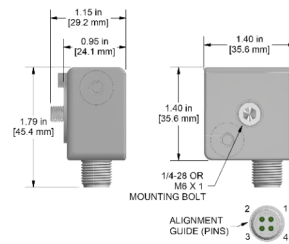
Collect 3 Channels of Data Simultaneously for Faster Data Collection

- ▶ Cost Effective, Rugged Triaxial Sensor Ideally Suited for a Wide Variety of Industrial Applications
- ▶ Compatible with CTC M4 Series Connectors

AC115-M12D

4 Pin M12 Connector

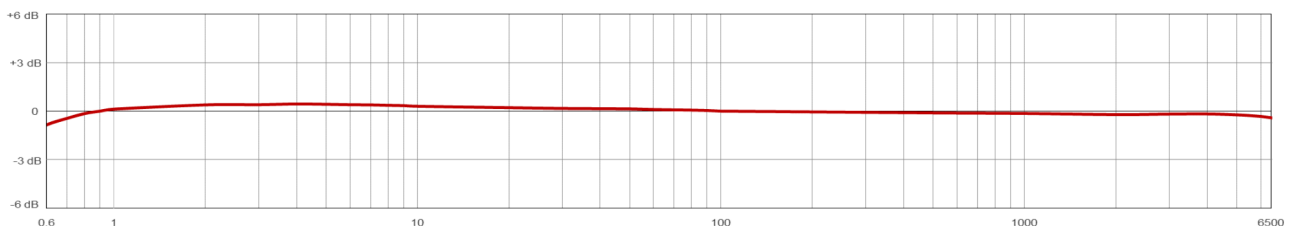
| Connector Pin | Polarity |
|---------------|------------------|
| 1 (Axis Y) | (+) Signal/Power |
| 2 (Axis X) | (+) Signal/Power |
| 3 (Axis Z) | (+) Signal/Power |
| 4 | (-) Common |



Stock Product

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|---|------------------------------------|--|-----------------------------|----------------------|-------------------|
| Part Number | AC115-M12D | M/AC115-M12D | Environmental | | |
| Sensitivity ($\pm 15\%$) | | 100 mV/g | Operating Temperature Range | -58 to 250°F | -50 to 121°C |
| Frequency Response ($\pm 3\text{dB}$) | 60-390,000 CPM | 1,0-6500 Hz | Electromagnetic Sensitivity | CE | |
| Dynamic Range | | ± 50 g, peak *Vsource $\geq 22\text{V}$, 12Vbias | Sealing | Welded, Hermetic | |
| Electrical | | | SIL Rating | SIL 2 | |
| Settling Time | <2.5 seconds | | Physical | | |
| Voltage Source (IEPE) | 18-30 VDC | | Sensing Element | PZT Ceramic | |
| Constant Current Excitation | 2-10 mA | | Sensing Structure | Shear Mode | |
| Spectral Noise @ 10 Hz | 27 $\mu\text{g}/\sqrt{\text{Hz}}$ | | Weight | 7.1 oz | 200 grams |
| Spectral Noise @ 100 Hz | 6.5 $\mu\text{g}/\sqrt{\text{Hz}}$ | | Case Material | 316L Stainless Steel | |
| Spectral Noise @ 1000 Hz | 2.5 $\mu\text{g}/\sqrt{\text{Hz}}$ | | Connector (Non-Integral) | 4 Pin M12 Connector | |
| Output Impedance | <100 ohm | | Resonant Frequency | 1,380,000 CPM | 23000 Hz |
| Bias Output Voltage | 10-14 VDC | | Mounting Torque | 1 to 2 ft. lbs. | 1,4 to 2,7 Nm |
| Case Isolation | $>10^8$ ohm | | 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

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