

AC144 Series

Low Cost Miniature Industrial Multipurpose Accelerometer, Side Exit 2 Pin Mini-MIL Connector, 100 mV/g, ±15%



VIBRATION ANALYSIS HARDWARE



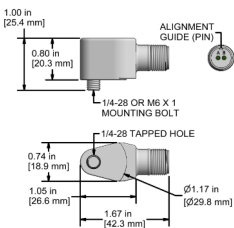
Product Features

Low-Cost mini-MIL Industrial Accelerometer, Great for Hard-to-Reach Locations

- ▶ ± 80 g, Dynamic Range
- ▶ 100 mV/g Frequency Response
- ▶ 2 pin Mini-MIL Side Connector

AC144-1D 2 Pin Mini Mil Connector

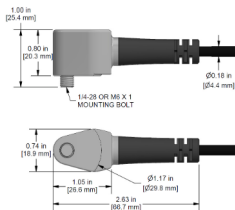
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

AC144-2D CB110 Integral Cable

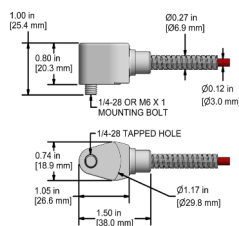
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC144-3D CB206 Armored Integral Cable

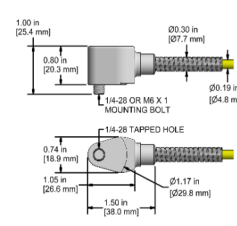
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC144-6D CB611 Heavy Duty Armored Integral Cable

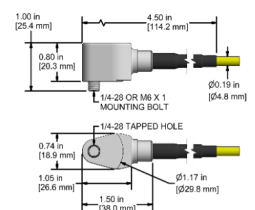
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC144-6N CB111 Integral Cable

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



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC144	M/AC144	Environmental		
Sensitivity (±15%)		100 mV/g	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	36-600,000 CPM	0.6-100,000	Maximum Shock Protection		5,000 g, peak
Dynamic Range		± 80 g, peak *V _{source} ≥ 22V, 12V bias	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		30 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	2.1 oz	60 grams
Output Impedance		<100 ohm	Case Material		316L Steel
Bias Output Voltage		7-14 VDC	Connector (Non-Integral)		2 Pin mini-MIL (J Series)
Case Isolation		>10 ⁸ ohm	Resonant Frequency	1,920,000 CPM	26000 Hz
			Mounting Torque	2 to 5 ft.	2.7 to 6.8