

AC144 Series

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



VIBRATION ANALYSIS HARDWARE



Product Features

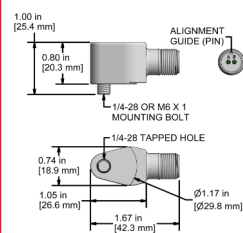
Low-Cost, Mini-MIL Industrial Accelerometer, Great for Hard-to-Reach Locations

- ▶ ± 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

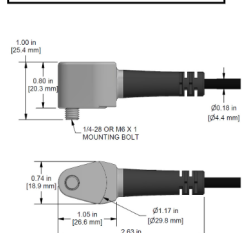


Stock Product

AC144-2D

CB110 Integral Cable

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

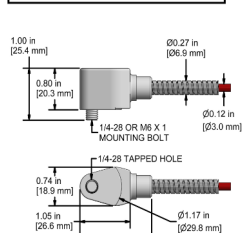


Built To Order

AC144-3D

CB206 Armored Integral Cable

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

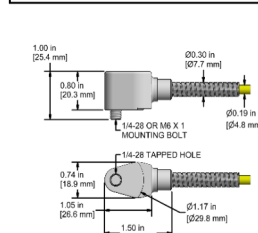


Built To Order

AC144-6D

CB611 Heavy Duty Armored Integral Cable

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

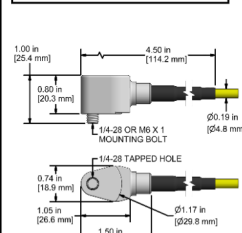


Built To Order

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	<u>Environmental</u>		
Sensitivity ($\pm 15\%$)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (± 3 dB)	36-600,000 CPM	0.6-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	± 80 g, peak		Electromagnetic Sensitivity	CE	
Transverse Sensitivity	*Vsource $\geq$ 22V, 12Vbias		Sealing	Welded, Hermetic	
<u>Electrical</u>			Submersible Depth	200 ft.	60 m
Settling Time	<2.5 seconds		SIL Rating	SIL 2	
Voltage Source	18-30 VDC		<u>Physical</u>		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	30 μ g/ $\sqrt$ Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	4 μ g/ $\sqrt$ Hz		Weight	2.1 oz	60 grams
Spectral Noise @ 1000 Hz	2 μ g/ $\sqrt$ Hz		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Connector (Non-Integral)	2 Pin mini-MIL (J Series)	
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,920,000 CPM	26000 Hz
Case Isolation	>10 ⁹ ohm		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

