

# AC140 Series



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

VIBRATION ANALYSIS HARDWARE



## Product Features

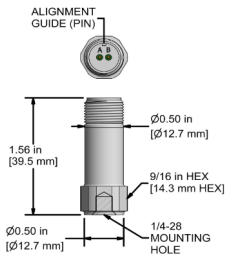
Mini Industrial Accelerometer, Great for Hard-to-Reach Locations

- ▶ Mini, Easy to Manage Size
- ▶ 2 Pin Mini-MIL Connection
- ▶ ±15% Sensitivity

### AC140-1D

2 Pin Mini Mil Connector

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

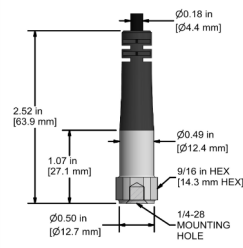


Stock Product

### AC140-2D

CB110 Integral Cable

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

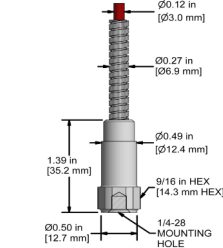


Built To Order

### AC140-3D

CB206 Armored Integral Cable

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

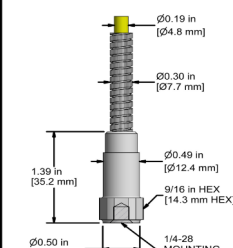


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### AC140-6D

CB611 Heavy Duty Armored Integral Cable

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

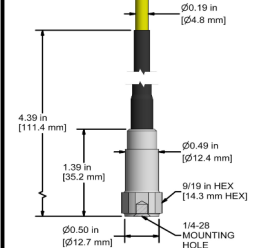


Built To Order

### AC140-6N

CB111 Integral Cable

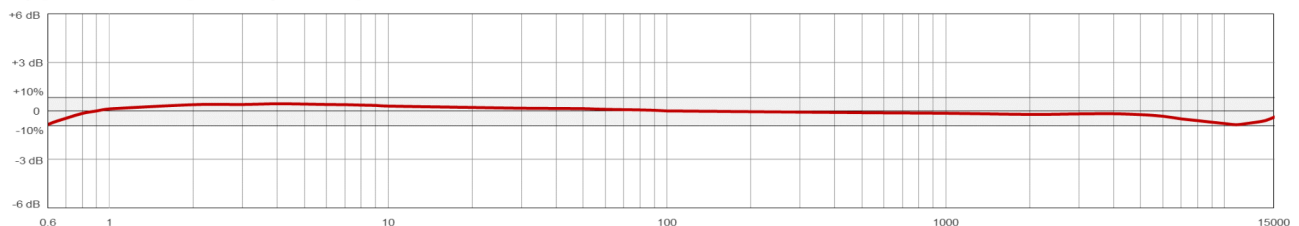
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC140	M/AC140	<b>Environmental</b>		
Sensitivity (±15%)		100 mV/g	Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	36-900,000 CPM	0.6-15000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	60-420,000 CPM	1.0-7000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 50 g, peak	Sealing		Welded, Hermetic
<b>Electrical</b>			Submersible Depth	200 ft.	60 m
Settling Time	<2.5 seconds		<b>Physical</b>		
Voltage Source (IEPE)	18-30 VDC		Sensing Element		PZT Ceramic
Constant Current Excitation	2-10 mA		Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz	30 µg/√Hz		Weight	0.7 oz	20 grams
Spectral Noise @ 100 Hz	4 µg/√Hz		Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz	2 µg/√Hz		Mounting		1/4-28
Output Impedance	<100 ohm		Connector (Non-Integral)		2 Pin mini-MIL (J Series)
Bias Output Voltage	10-14 VDC		Resonant Frequency	2,040,000 CPM	34000 Hz
Case Isolation	>10 <sup>8</sup> ohm		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
			Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate		CA10

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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