

# AC154 Series

Low Cost, Multipurpose Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, ±15%



VIBRATION ANALYSIS HARDWARE



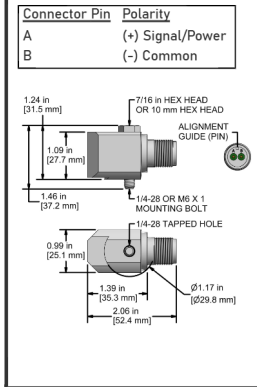
## Product Features

Low-Cost, Side-Exit Sensor

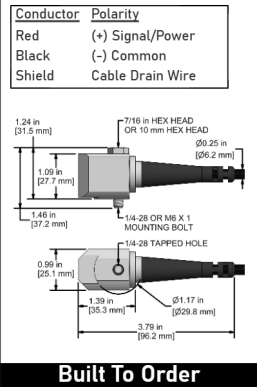
Economical Way to Trend Machinery

- ▶ ± 80 g, Peak Dynamic Range
- ▶ 0.5 - 7000 Hz (30 - 420,000 CPM) Frequency Response
- ▶ Standard 2 Pin MIL Connection or Integral Cable  
Note: Integral Cable Options are only for Permanent Monitoring Applications

### AC154-1A 2 Pin Connector

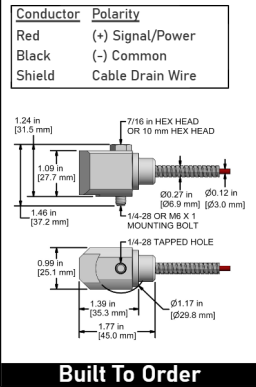


### AC154-2C CB103 Integral Cable



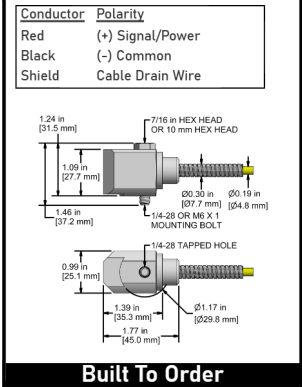
Built To Order

### AC154-3C CB206 Armored Integral Cable



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### AC154-6C CB611 Heavy Duty Armored Integral Cable



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Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC154	M/AC154	<b>Environmental</b>		
Sensitivity (±15%)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	30-420,000 CPM	0.5-7000 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	± 80 g, peak		Electromagnetic Sensitivity	CE	
	*Vsource ≥ 22V, 12Vbias		Sealing	Welded, Hermetic	
<b>Electrical</b>			SIL Rating	SIL 2	
Settling Time	<2.5 seconds		<b>Physical</b>		
Voltage Source	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	14 µg/√Hz		Weight	5.1 oz	145 grams
Spectral Noise @ 100 Hz	2.3 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Connector (Non-Integral)	2 Pin MIL-C-5015	
Output Impedance	<100 ohm		Resonant Frequency	1,320,000 CPM	22000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Case Isolation	>10 <sup>8</sup> ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

## Typical Frequency Response

