

AC154 Series

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



Limited
Availabili

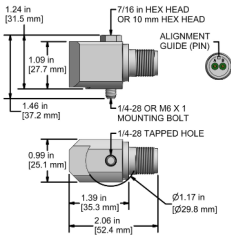


Product Features

- 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

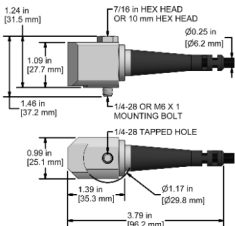
Connector	Polarity
Pin	
A	(+) Signal/Power
B	(-) Common



Stock Product

AC154-2C CB103 Integral Cable

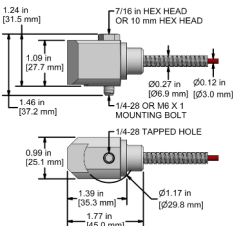
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common Cable Drain
Shield	Wire



Built To Order

AC154-3C CB206 Armored Integral Cable

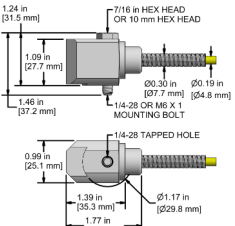
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common Cable Drain
Shield	Wire



Built To Order

AC154-6C CB611 Heavy Duty Armored Integral Cable

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



Built To Order

Specifications	Standard	Metric
Part Number	AC154	M/AC154
Sensitivity (±15%)	100 mV/g	
Frequency Response (±3dB)	30-420,000 CPM	0.5-7000 Hz
Dynamic Range	± 80 g, peak *Vsource ≥ 22V, 12Vbias	
Settling Time	<2.5 seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	14 µg/√Hz	
Spectral Noise @ 100 Hz	2.3 µg/√Hz	
Spectral Noise @ 1000 Hz	2 µg/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁸ ohm	

Electrical

Specifications	Standard	Metric
Operating Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
SIL Rating	SIL 2	
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	5.1 oz	145 grams
Case Material	316L Stainless Steel	
Connector (Non-Integral)	2 Pin MIL-C-5015	
Resonant Frequency	1,320,000 CPM	22000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
	1/4-28	M4x1

Physical