

AC244 Series

Premium, Miniature Industrial Accelerometer, High Frequency, Side Exit 2 Pin Mini-MIL Connector, 100 mV/g, $\pm 5\%$



VIBRATION ANALYSIS HARDWARE



Product Features

Premium, Mini-MIL, Low-Profile Industrial Accelerometer

100 mV/g $\pm 5\%$ Sensitivity

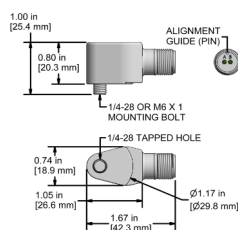
► 2 Pin Mini-MIL Connection or Integral Cable

Note: Integral Cable Options are Only for Permanent Monitoring Applications

AC244-1D

2 Pin Mini Mil Connector

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

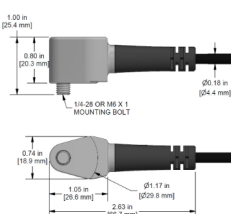


Stock Product

AC244-2D

CB110 Integral Cable

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

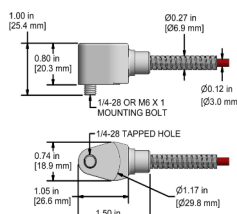


Built To Order

AC244-3D

CB206 Armored Integral Cable

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

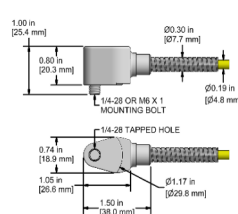


Built To Order

AC244-6D

CB611 Heavy Duty Armored Integral Cable

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



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC244	M/AC244	<u>Environmental</u>		
Sensitivity ($\pm 5\%$)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response ($\pm 3\text{dB}$)	36-900,000 CPM	0.6-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response ($\pm 10\%$)	60-600,000 CPM	1,0-10000 Hz	Electromagnetic Sensitivity	CE	
Frequency Response ($\pm 5\%$)	120-420,000 CPM	2,0-7000 Hz	Sealing	Welded, Hermetic	
Dynamic Range	± 80 g, peak *Vsource $\geq 22\text{V}$, 12Vbias		Submersible Depth	200 ft.	60 m
Saturation Time	$\leq 5\%$		SIL Rating	SIL 2	
<u>Electrical</u>			<u>Physical</u>		
Settling Time	<2.5 seconds		Sensing Element	PZT Ceramic	
Voltage Source	18-30 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	2.1 oz	60 grams
Spectral Noise @ 10 Hz	30 $\mu\text{g}/\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	4 $\mu\text{g}/\sqrt{\text{Hz}}$		Connector (Non-Integral)	2 Pin mini-MIL (J Series)	
Spectral Noise @ 1000 Hz	2 $\mu\text{g}/\sqrt{\text{Hz}}$		Resonant Frequency	1,192,600 CPM	26000 Hz
Output Impedance	<100 ohm		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Bias Output Voltage	10-14 VDC		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Case Isolation	>10 ⁸ ohm		Calibration Certificate	CA10	

Typical Frequency Response

