

AC944 Series



Miniature Industrial Class I, Division 2 / Zone 2 Accelerometer, Side Exit 2 Pin Mini-MIL Connector, 100 mV/g, ±10%

VIBRATION ANALYSIS HARDWARE



Regulatory Information

Ex nA IIC T3C Gc
 AEx nA IIC T3C Gc
 CLI Groups A, B, C, D
 CLII Groups E, F, G; CLIII
 CLI, Zone 2

Ui = 28 Vdc Ii = 100 mA
 Ci = 0µf Li = 51uH Pi = 100 mW
 CSA 221421

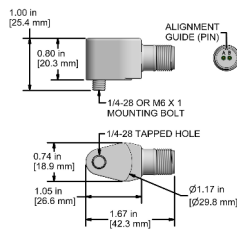
Sira 15ATEX2152X
 Ex nA IIC T3 Gc

Operating Temperature Code: T3C
 Ambient Temperature Range = -40 to 121°C

AC944-1D

2 Pin Mini-MIL Connector

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

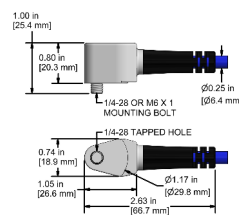


Stock Product

AC944-2D

CB190 Integral Cable

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

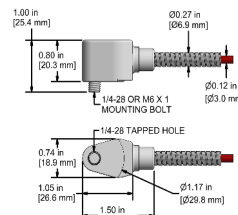


Built To Order

AC944-3D

CB296 Armored Integral Cable

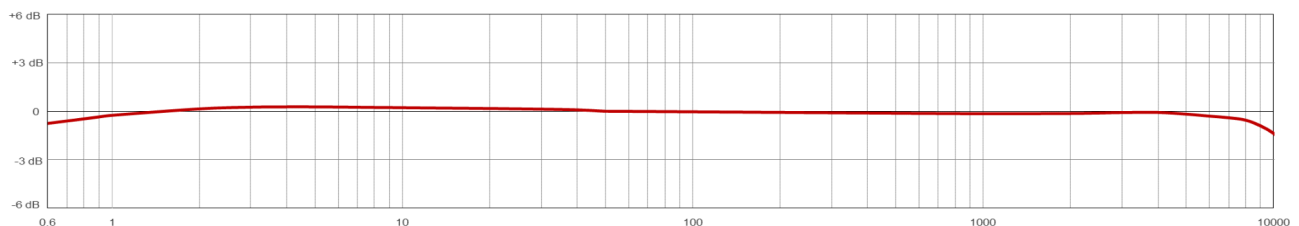
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC944	M/AC944	Environmental		
Sensitivity (±10%)	100 mV/g		Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	36-600,000 CPM	0.6-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	± 50 g, peak		Electromagnetic Sensitivity	CE	
Electrical			Sealing	Welded, Hermetic	
Settling Time	<2.5 seconds		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-28 VDC		Physical		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	30 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	4 µg/√Hz		Weight	2.1 oz	60 grams
Spectral Noise @ 1000 Hz	2 µg/√Hz		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Mounting	1/4-28	
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)	2 Pin mini-MIL (J Series)	
Case Isolation	>10 ⁸ ohm		Resonant Frequency	1,920,000 CPM	32000 Hz
			Mounting Torque	2 to 5 ft. lbs	2.7 to 6.8 Nm
			Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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