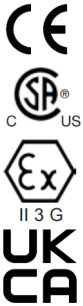


AC944 Series



VIBRATION ANALYSIS HARDWARE

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



Product Features

CSA North America Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III

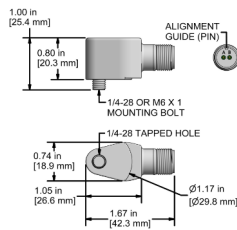
▶ NOTE: Class I, Division 2 / Ex nA IIC when installed using an approved Zone 2 / Division 2 rated cable in accordance with the CEC or the NEC. Suitability of final installation is to be determined by the authority having local jurisdiction.

▶ Suggested Approved Cabling: CB190 or CB296 Cable and JQ2A or JQ2N Connectors

AC944-1D

2 Pin Mini-MIL Connector

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

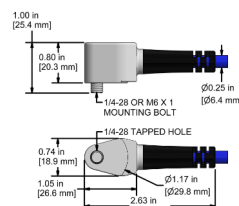


Stock Product

AC944-2D

CB190 Integral Cable

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

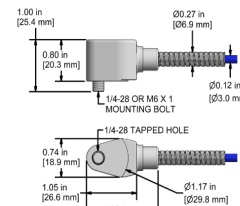


Built To Order

AC944-3D

CB296 Armored Integral Cable

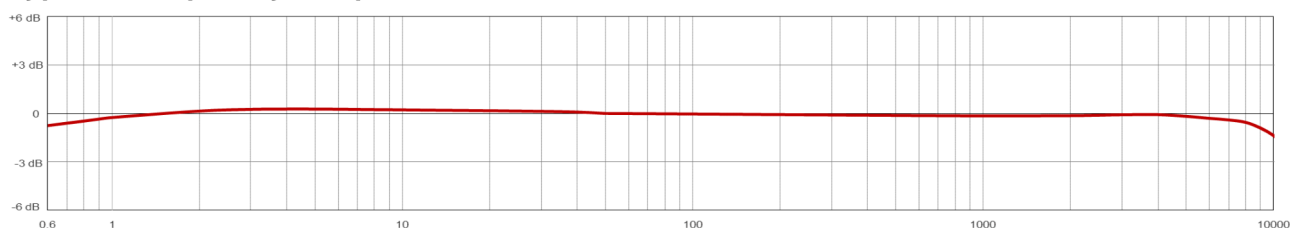
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC944	M/AC944	Environmental		
Sensitivity (±10%)		100 mV/g	Operating 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 Thread		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 Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate		CA10

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

www.ctconline.com | sales@ctconline.com | 585-924-5900