

AC940 Series



VIBRATION ANALYSIS HARDWARE

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



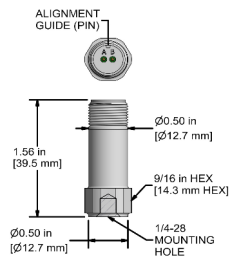
Regulatory Information

Ex nA IIC T3C Gc	Ui = 28 Vdc li = 100 mA
AEx nA IIC T3C Gc	Ci = 0µf Li = 51uH Pi = 100 mW
CLI Groups A, B, C, D	CSA 221421
CLII Groups E, F, G; CLIII	Sira 15ATEX2152X
CLI, Zone 2	Ex nA IIC T3 Gc
Operating Temperature Code: T3C	
Ambient Temperature Range = -40 to 121°C	

AC940-1D

2 Pin Connector

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

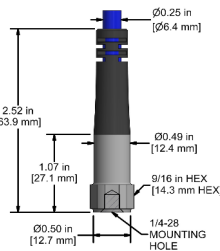


Stock Product

AC940-2D

CB190 Integral Cable

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

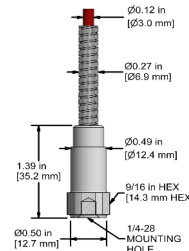


Built To Order

AC940-3D

CB296 Armored Integral Cable

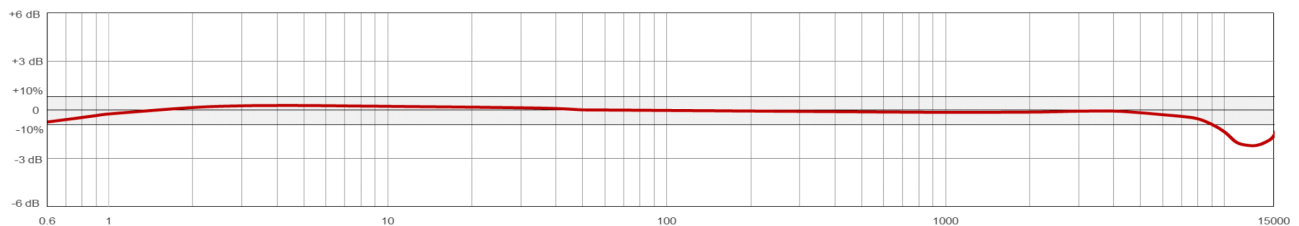
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC940	M/AC940	Environmental		
Sensitivity (±10%)	100 mV/g		Temperature Range	-58 to 250°F	50 to 121°C
Frequency Response (±3dB)	36-900,000 CPM	0.6-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	60-420,000 CPM	1.0-7000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 50 g, peak		Sealing	Welded, Hermetic	
Electrical			Physical		
Settling Time	<2.5 seconds		Sensing Element	PZT Ceramic	
Voltage Source (IEPE)	18-28 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	0.7 oz	20 grams
Spectral Noise @ 10 Hz	30 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	4 µg/√Hz		Mounting	1/4-28	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Connector (Non-Integral)	2 Pin mini-MIL, J Series	
Output Impedance	<100 ohm		Resonant Frequency	2,040,000 CPM	34000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs	2.7 to 6.8 Nm
Case Isolation	>10 ⁸ ohm		Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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