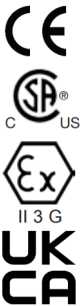


AC944 Series

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



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

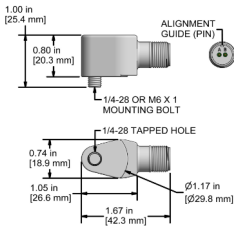
Ui = 28 Vdc li = 100 mA
Ci = 0µf Li = 51uH Pi =
100 mW
CSA 221421

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

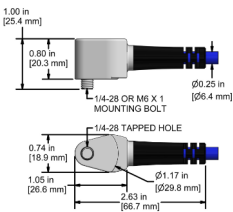
Connector	Polarity
Pin	
A	(+) Signal/Power
B	(-) Common



Stock Product

AC944-2D
CB190 Integral Cable

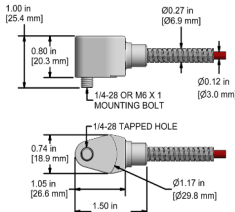
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



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	<u>Environmental</u>		
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
<u>Electrical</u>			Sealing		Welded, Hermetic
Settling Time		<2.5 seconds	SIL Rating		SIL 2
Voltage Source (IEPE)		18-28 VDC	<u>Physical</u>		
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