

# AC965 Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Inherently Safe IEC Certified (IECEX / ANZEx / PESO / KC / EAC) Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±10%

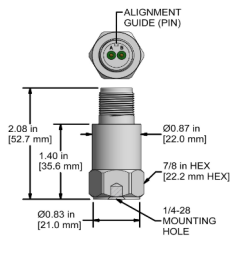


## Regulatory Information

Ex ia IIC T3/T4	Ui = 28 Vdc li = 100 mA
AEx ia IIC T3/T4	CSA 221421
CL I Groups A, B, C, D	
CL II Groups F, G	IECEX CSA 07.0001
CL III	Ex ia IIC T3
	Ex ia IIC T4
Operating Temperature Code: T4 ANZEx 18.4160	
Ambient Temperature Range =	
-40 to 80°C	
Operating Temperature Code: T3	
Ambient Temperature Range =	
-40 to 125°C	

### AC965-1A 2 Pin Connector

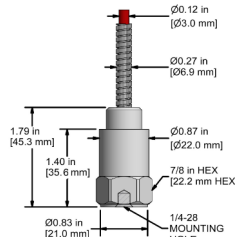
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

### AC965-3C CB206 Armored Integral Cable

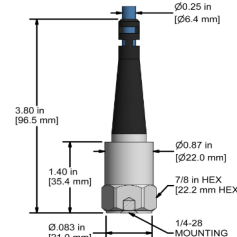
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

### AC965-9C CB190 Integral Cable

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



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC965	M/AC965	<b>Environmental</b>		
Sensitivity (±10%)		100 mV/g	Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	30-900,000 CPM	0,5-15000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	60-600,000 CPM	1,0-10000 Hz	Electromagnetic Sensitivity		CE
Frequency Response (±5%)	600-300,000 CPM	10-5000 Hz	Sealing		Welded, Hermetic
Dynamic Range		± 50 g, peak	<b>Physical</b>		
<b>Electrical</b>			Sensing Element		PZT Ceramic
Settling Time		<3 Seconds	Sensing Structure		Shear Mode
Voltage Source (IEPE)		18-28 VDC	Weight	3.2 oz	91 grams
Constant Current Excitation		2-10 mA	Case Material		316L Steel
Spectral Noise @ 10 Hz		30 µg/√Hz	Mounting		1/4-28
Spectral Noise @ 100 Hz		19 µg/√Hz	Connector (Non-Integral)		2 Pin MIL-C-5015
Spectral Noise @ 1000 Hz		15 µg/√Hz	Resonant Frequency	1,380,000 CPM	23000 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	1/4-28 Stud	M6x1 Adapter Stud
Case Isolation		>10 <sup>8</sup> ohm	Calibration Certificate		CA10