

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%

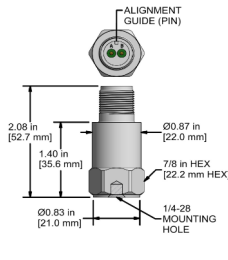


Regulatory Information

Ex ia IIC T3/T4	Ui = 28 Vdc Ii = 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	Ex ia I Ma
Ambient Temperature Range =	ANZEx 18.4160
-40 to 80°C	
Operating Temperature Code: T3	
Ambient Temperature Range =	
-40 to 125°C	

AC965-1A 2 Pin Connector

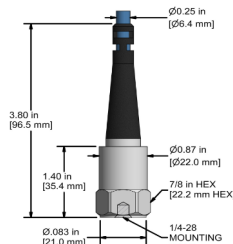
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

AC965-2C CB193 Integral Cable

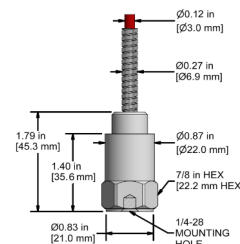
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC965-3C 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	AC965	M/ or M8/AC965	Environmental		
Sensitivity (±10%)	100 mV/g		Operating 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		Physical		
Electrical			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 Stainless Steel
Spectral Noise @ 10 Hz	30 µg/√Hz		Mounting Thread		1/4-28 Blind Tapped Hole
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				