

AC968-M12A Series



VIBRATION ANALYSIS HARDWARE

Nonincedive, Intrinsically Safe, IECEx/ANZEx Zone 0,1 Approved Accelerometer, Side Exit 4 Pin M12 Connector, M8x1.25 Captive Bolt, 100 mV/g, ±10%



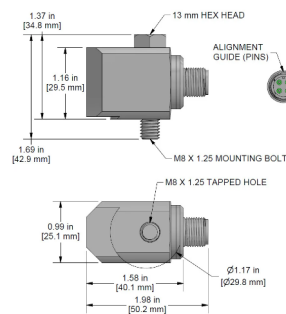
Regulatory Information

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 = -40 to 80°C	ANZEx 18.4160
Operating Temperature Code: T3	
Ambient Temperature Range = -40 to 125°C	

AC968-M12A

2 Pin Connector

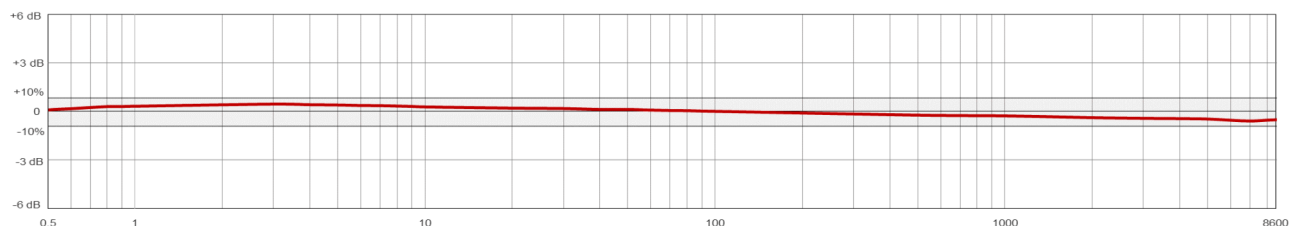
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC968-M12A		Environmental		
Sensitivity (±10%)		100 mV/g	Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±3dB)	30-480,000 CPM	0.5-8000 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range		± 50 g, peak	Electromagnetic Sensitivity	CE	
Electrical			Sealing	Welded, Hermetic	
Settling Time	<3 Seconds		Submersible Depth	200 ft.	61 m
Voltage Source (IEPE)	18-28 VDC		Physical		
Constant Current Excitation	2-4 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	6.5 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	2 µg/√Hz		Weight	5.3 oz	150 grams
Spectral Noise @ 1000 Hz	1.8 µg/√Hz		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Mounting Thread	M8x1.25 Captive Bolt	
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)	2 Pin MIL-C-5015	
Case Isolation	>10 ⁸ ohm		Resonant Frequency	1,320,000 CPM	
			Mounting Torque	2 to 5 ft. lbs.	
			Mounting Hardware Supplied		M8x1.25 Captive Bolt
			Calibration Certificate		CA10

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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