

# AC915-M12A Series



VIBRATION ANALYSIS HARDWARE

Nonincendive Intrinsically Safe Accelerometer, CSA North America Class 1, Division 1 and IECEx/ATEX Zone 0,1 Approved Accelerometer, Top Exit 4 Pin M12 Connector, 100 mV/g, ±10%



II 1 G D



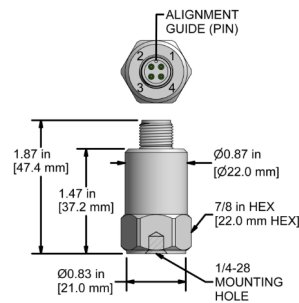
## Regulatory Information

Ex ia IIC T3/T4	CSA 22 UKEX 1408X
CL I Groups A, B, C, D	Ex ia IIC T3/T4 Ga
CL II Groups F, G	Ex ia I Ma
CL III	Sira 15 ATEX 2152X
Operating Temperature Code: T4	Ex ia IIC T3/T4 Ga
Ambient Temperature Range = -40 to 80°C	Ex ia I Ma
Operating Temperature Code: T3	
Ambient Temperature Range = -40 to 125°C	IECEx SIR 15.0060X
Ui = 28 Vdc li = 100 mA	Ex ia IIC T3/T4 Ga
CSA 221421	Ex ia I Ma

## AC915-M12A

4 Pin Connector

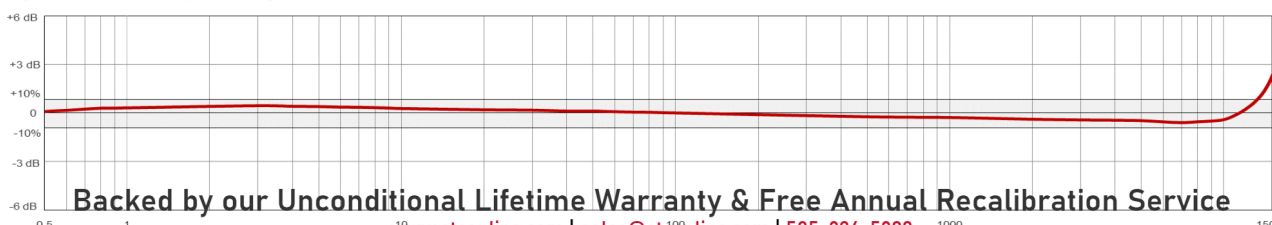
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC915-M12A	M/ or M8/AC915	<b>Environmental</b>		
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
Dynamic Range		± 80 g, peak	Sealing		Welded, Hermetic
<b>Electrical</b>			Submersible Depth	200 ft.	61 m
Settling Time		<3 Seconds	<b>Physical</b>		
Voltage Source (IEPE)		18-28 VDC	Sensing Element		PZT Ceramic
Constant Current Excitation		2-4 mA	Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz		6.5 µg/√Hz	Weight	3.2 oz	90 grams
Spectral Noise @ 100 Hz		2 µg/√Hz	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		1.8 µg/√Hz			0.83 in. (21 mm)
Output Impedance		<100 ohm	Mounting Thread		Diameter Mounting Base with 1/4-28 Blind Tapped Hole
Bias Output Voltage		10-14 VDC	Connector (Non-Integral)		2 Pin MIL-C-5015
Case Isolation		>10 <sup>8</sup> ohm	Resonant Frequency	1,380,000 CPM	23000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
			Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
			Calibration Certificate		CA10

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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