

AC915-M12A Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Intrinsically Safe Accelerometer, Top Exit 4 Pin
M12 Pin Connector, 100 mV/g, ±10%



II 1 G D

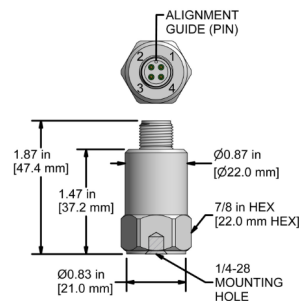


Regulatory Information

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

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	<u>Environmental</u>		
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	
<u>Electrical</u>			Submersible Depth	200 ft.	61 m
Settling Time	<3 Seconds		<u>Physical</u>		
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) Diameter	
Output Impedance	<100 ohm				
Bias Output Voltage	10-14				