

AC914 Series

Low Capacitance, Intrinsically Safe Accelerometer, Side Exit 2 Pin Connector, 50 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



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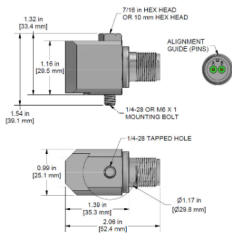


Regulatory Information

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	

AC914-1A 2 Pin Connector

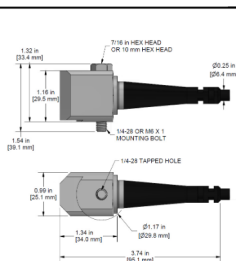
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

AC914-2C CB193 Integral Cable

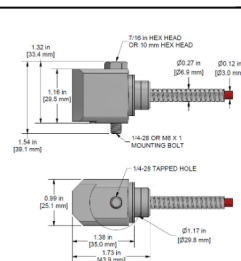
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC914-3C 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	AC914	M/AC914	Environmental		
Sensitivity (±10%)		50 mV/g	Operating Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	60-600,000 CPM	1,0-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	90-300,000 CPM	1,5-5000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range		± 160 g, peak	Sealing	Welded, Hermetic	
Electrical			Submersible Depth	200 ft.	61 m
Settling Time		<3 Seconds	SIL Rating	SIL 2	
Voltage Source (IEPE)		18-28 VDC	Physical		
Constant Current Excitation		2-4 mA	Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz		9 µg/√Hz	Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz		2 µg/√Hz	Weight	5.3 oz	150 grams
Spectral Noise @ 1000 Hz		1.6 µg/√Hz	Case Material	316L Stainless Steel	
Output Impedance		<100 ohm	Mounting Thread	1/4-28	
Bias Output Voltage		10-14 VDC	Connector (Non-Integral)	2 Pin MIL-C-5015	
Case Isolation		>10 ⁸ ohm			