

AC914 Series



VIBRATION ANALYSIS HARDWARE

Nonincendive Intrinsically Safe Accelerometer, CSA North America Class 1, Division 1 and IECEx/ATEX Zone 0,1 Approved Accelerometer, Side Exit 2 Pin Connector, 50 mV/g, ±10%



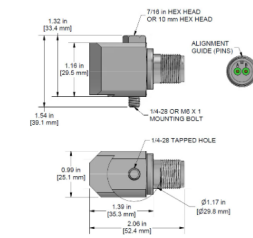
Regulatory Information

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 = -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

AC914-1A

2 Pin Connector

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

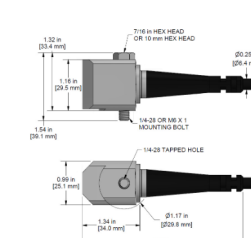


Stock Product

AC914-2C

CB193 Integral Cable

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

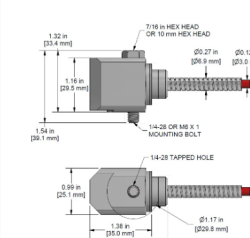


Built To Order

AC914-3C

CB296 Armored Integral Cable

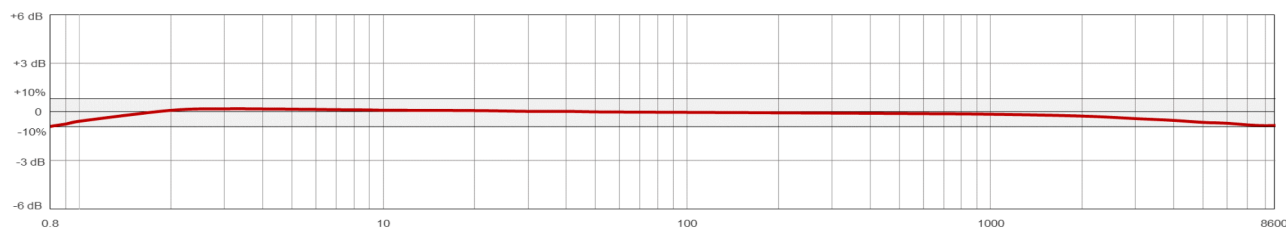
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



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		Resonant Frequency	1,320,000 CPM	22000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
			Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

www.ctconline.com | sales@ctconline.com | 585-924-5900