

AC914 Series

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



II 1 G D



Regulatory Information

Ex ia IIC T3/T4

CL I Groups A, B, C, D

CL II Groups F, G

CL III

CSA 22 UKEX 1408X

Ex ia IIC T3/T4 Ga

Ex ia I Ma

Sira 15 ATEX 2152X

Operating Temperature Code: T4

Ambient Temperature Range = -40 to 80°C

Operating Temperature Code: T3

Ambient Temperature Range = -40 to 125°C

Ui = 28 Vdc Ii = 100 mA

CSA 221421

Ex ia IIC T3/T4 Ga

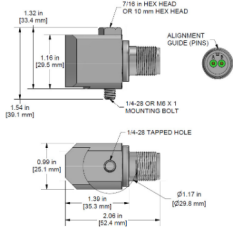
Ex ia I Ma

Ex ia IIC T3/T4 Ga

Ex ia I Ma

AC914-1A
2 Pin Connector

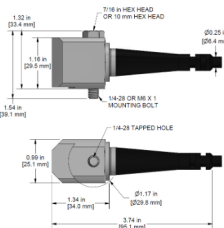
Connector	Polarity
Pin	
A	(+)
	Signal/Power
B	(-) Common



Stock Product

AC914-2C
CB193 Integral Cable

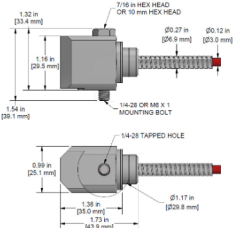
Conductor	Polarity
Red	(+)
	Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



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			316L	
Output Impedance	<100 ohm		Case Material	Stainless Steel	
Bias Output Voltage	10-14 VDC		Mounting Thread	1/4-28	
Case Isolation	>10 ⁸ ohm		Connector (Non-Integral)	2 Pin MIL-C-5015	