

AC911 Series

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



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 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

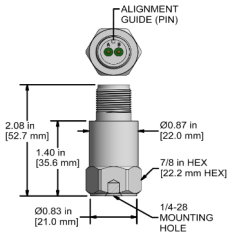
Ex ia I Ma

Ui = 28 Vdc li = 100 mA

CSA 221421

AC911-1A
2 Pin Connector

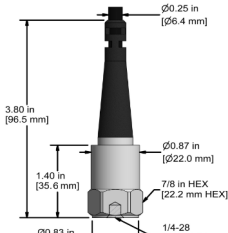
Connector	Polarity
Pin	
A	(+) Signal/Power
B	(-) Common



Stock Product

AC911-2C
CB193 Integral Cable

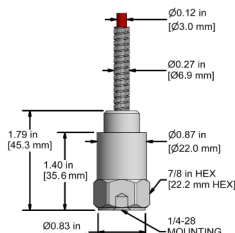
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC911-3C
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	AC911	M/ or M8/AC911	<u>Environmental</u>		
Sensitivity (±10%)	10 mV/g		Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±3dB)	60-900,000 CPM	1,0-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	120-360,000 CPM	2,0-6000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 800 g, peak		Sealing	IP68	
<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	100 µg/√Hz		Weight	3.2 oz	91 grams
Spectral Noise @ 100 Hz	90 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	85 µg/√Hz			0.83 in (21 mm) Diameter	
Output Impedance	<100 ohm			Mounting Base with	
Bias Output Voltage	10-14			Mounting Thread	