

TA911 Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Intrinsically Safe Dual Output Accelerometer, Acceleration and Temperature, Top Exit 3 Pin Connector, 10 mV/g, 10 mV/°C, ±10%

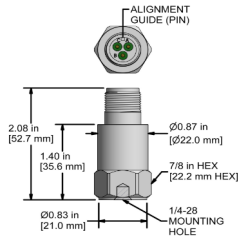


Regulatory Information

Ex ia IIC T3 Ga	CSA 22 UKEX 1408X
AEx is IIC T3 Ga	Ex ia IIC T3/T4 Ga
CLI Groups A, B, C, D	Ex ia I Ma
CLII Groups E, F, G; CLIII	
CLI, Zone 0	Sira 15ATEX2152X
Operating Temperature Code: T3	Ex ia IIC T3 Ga
Ambient Temperature Range =	Ex ia I Ma
-40 to 80°C	IECEx SIR 15.0060X
Control Drawing INS10012	Ex ia IIC T3 Ga
Ui = 28 Vdc li = 112 mA	Ex ia I Ma
Pi = 1W, Ci = 1.5nF, Li = 0µH	
CSA 221421	

TA911-1A 3 Pin Connector

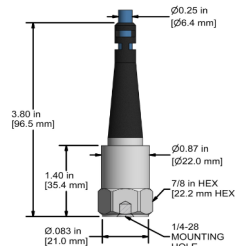
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common
C	(+) Temperature Voltage



Stock Product

TA911-2C CB191 Integral Cable

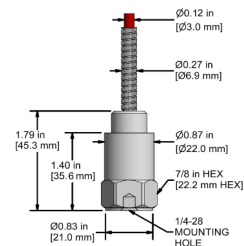
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

TA911-3C CB218 Armored Integral Cable

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



Built To Order

Specifications	Standard		Metric	
	Standard	Metric	Standard	Metric
Part Number	TA911	M/ or M8/TA91	<u>Environmental</u>	
Sensitivity (±10%)	10 mV/g		Operating Temperature Range	-40 to 250 °F / -40 to 121 °C
Frequency Response (±3dB)	72-900,000 CPM	1,2-1500	Maximum Shock Protection	5,000 g, peak
Frequency Response (±10%)	150-360,000 CPM	2,5-6000 Hz	Electromagnetic Sensitivity	CE
Dynamic Range	± 800 g, peak		Sealing	Welded, Hermetic
Temperature Measurement Range	36.5 to 212 °F	2.5 to 100 °C	Sensing Element	PZT Ceramic
Temperature Output	10 mV/°C		Sensing Structure	Shear Mode
<u>Electrical</u>			Weight	3.2 oz / 90 grams
Settling Time	< 2 seconds		Case Material	316L Stainless Steel
Voltage Source (IEPE)	18-28 VDC		Mounting Thread	1/4-28 Blind Tapped Hole
Constant Current Excitation	2-10 mA		Connector (Non-Integral)	3 Pin MIL-8838
Spectral Noise @ 10 Hz	30 µg/√Hz			
Spectral Noise @ 100 Hz	19 µg/√Hz			