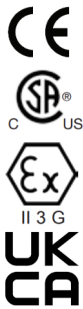


# TA931 Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Class I, Division 2 / Zone 2 Dual Output Sensor,  
Acceleration and Temperature, Top Exit 3 Pin Connector, 10 mV/g, 10  
mV°C, ±10%



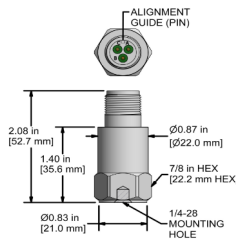
## Regulatory Information

Ex nA IIC T3 Gc                      Ui = 28 Vdc Ii = 100 mA  
 AEx nA IIC T3 Gc                    Ci = 0µf Li = 51uH Pi =  
 CLI Groups A, B, C, D              100 mW  
 CLII Groups E, F, G; CLIII        CSA 221421  
 CLI, Zone 2                              Sira 15ATEX2152X  
 Operating Temperature Code: T3 Ex nA IIC T3 Gc  
 Ambient Temperature Range =  
 -40 to 121°C

### TA931-1A

3 Pin Connector

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

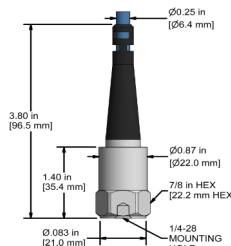


Stock Product

### TA931-2C

CB191 Integral Cable

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

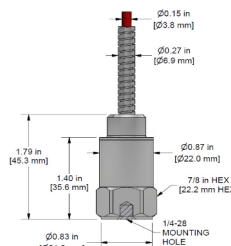


Built To Order

### TA931-3C

CB218 Armored Integral Cable

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



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA931	M/ or Environmental	Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Sensitivity (±10%)	10 mV/g	M8/TA931	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±3dB)	72-900,000 CPM	1,2-1500 Hz	Electromagnetic Sensitivity	CE	
Frequency Response (±10%)	150-360,000 CPM	2,5-600 Hz	Sealing	Welded, Hermetic	
Dynamic Range	± 800 g, peak		Sensing Element	PZT Ceramic	
Temperature Measurement Range	36.5 to 212 °F	2.5 to 10 °C	Sensing Structure	Shear Mode	
Temperature Output	10 mV/°C		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)	MIL-C-5015	
Spectral Noise @ 10 Hz	30 µg/√Hz				
Spectral Noise @ 100 Hz	19 µg/√Hz				
	15 µg/√Hz				