

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
AEx nA IIC T3 Gc
CLI Groups A, B, C, D
CLII Groups E, F, G; CLIII
CLI, Zone 2

Ui = 28 Vdc Ii = 100 mA
Ci = 0µf Li = 51uH Pi = 100 mW
CSA 221421

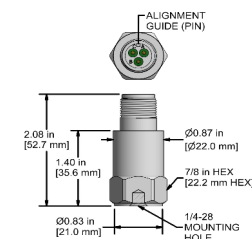
Sira 15ATEX2152X
Ex nA IIC T3 Gc

Operating Temperature Code: T3
Ambient Temperature Range = -40 to 121°C

TA931-1A

3 Pin Connector

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

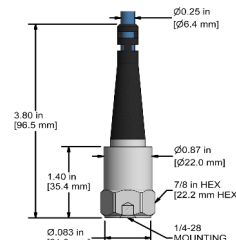


Stock Product

TA931-2C

CB191 Integral Cable

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

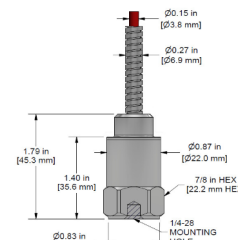


Built To Order

TA931-3C

CB218 Armored Integral Cable

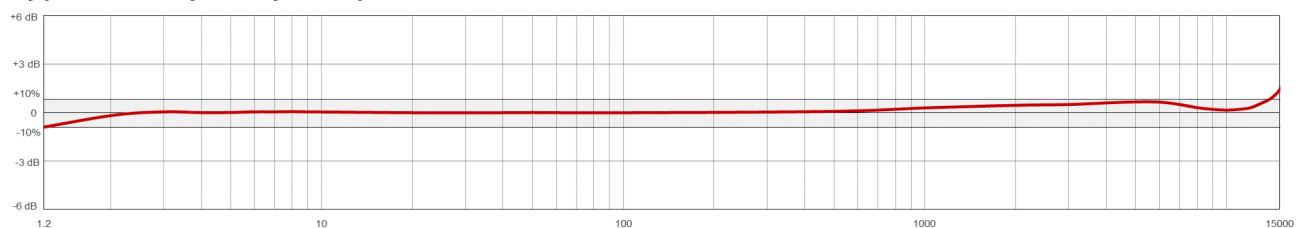
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA931	M/TA931	Environmental		
Sensitivity (±10%)		10 mV/g	Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	72-900,000 CPM	1,2-15000 Hz	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	38 to 250°F	3 to 121°C	Physical		
Temperature Output		10 mV/°C	Sensing Element		PZT Ceramic
Electrical			Sensing Structure		Shear Mode
Settling Time		<2 seconds	Weight	3.2 oz	90 grams
Voltage Source (IEPE)		18-28 VDC	Case Material		316L Stainless Steel
Constant Current Excitation		2-10 mA	Mounting		1/4-28
Spectral Noise @ 10 Hz		30 µg/√Hz	Connector (Non-Integral)		3 Pin MIL-C-5015
Spectral Noise @ 100 Hz		19 µg/√Hz	Resonant Frequency	1,380,000 CPM	23000 Hz
Spectral Noise @ 1000 Hz		15 µg/√Hz	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Output Impedance		<100 ohm	Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
Bias Output Voltage		10-14 VDC	Calibration Certificate		CA10
Case Isolation		>10 ⁸ ohm			

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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