

TA936 Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Class I, Division 2 / Zone 2 Dual Output Sensor,
Acceleration and Temperature, Side Exit 3 Pin Connector, 100 mV/g,
10 mV/°C, ±10%



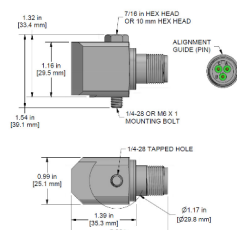
Regulatory Information

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

TA936-1A

3 Pin Connector

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

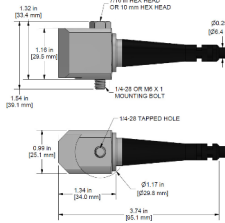


Stock Product

TA936-2C

CB191 Integral Cable

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

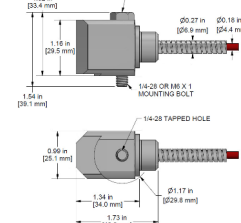


Built To Order

TA936-3C

CB218 Armored Integral Cable

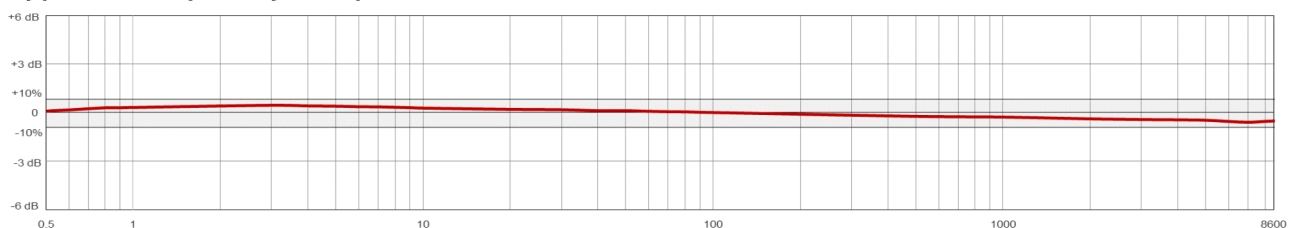
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA936	M/TA936	Environmental		
Sensitivity (±10%)	100 mV/g		Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	30-516,000 CPM	0.5-8600 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	60-360,000 CPM	1.0-6000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 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	5.3 oz	151 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	1,260,000 CPM	21000 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 Captive Bolt	M6x1 Captive Bolt
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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