

TA916 Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Inherently Safe Dual Output Accelerometer,
Acceleration and Temperature, Side Exit 3 Pin Connector, 100 mV/g,
10 mV/°C, ±10%

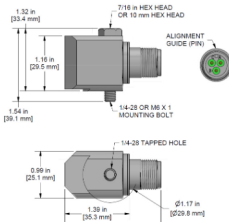


Regulatory Information

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 =	
-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	

TA916-1A 3 Pin Connector

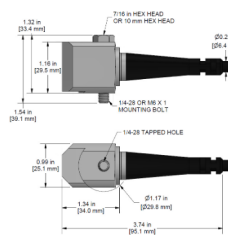
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common
C	(+) Temperature Voltage



Stock Product

TA916-2C CB191 Integral Cable

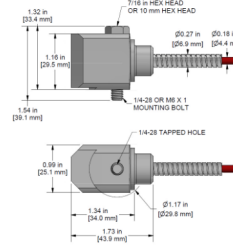
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

TA916-3C 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	TA916	M/TA916	Environmental		
Sensitivity (±10%)	100 mV/g	100 mV/g	Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±3dB)	30-516,000 CPM	0.5-86,400 Hz	Physical		
Dynamic Range	± 80 g, peak	± 80 g, peak	Sensing Element	PZT Ceramic	PZT Ceramic
Temperature Measurement Range	36.5 to 212 °F	2.5 to 100 °C	Sensing Structure	Shear Mode	Shear Mode
Temperature Output	10 mV/°C	10 mV/°C	Weight	5.3 oz	151 grams
Electrical			Case Material	316L Stainless Steel	316L Stainless Steel
Settling Time	<3 Seconds	<3 Seconds	Mounting Thread	1/4-28	1/4-28
Voltage Source (IEPE)	18-28 VDC	18-28 VDC	Connector (Non-Integral)	MIL-C-5015	MIL-C-5015
Spectral Noise @ 10 Hz	30 µg/√Hz	30 µg/√Hz	Resonant Frequency	1,260,000 CPM	21000 Hz
Spectral Noise @ 100 Hz	19 µg/√Hz	19 µg/√Hz	Mounting Torque	2 to 5 ft. lbs	2,7 to 6,8 Nm
Spectral Noise @ 1000 Hz	15 µg/√Hz	15 µg/√Hz	Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Output Impedance	<100 ohm	<100 ohm			