

TA911 Series



VIBRATION ANALYSIS HARDWARE

Nonincendive, Intrinsically Safe, CSA North America Class 1 Div 1, Class II Div 1, Class III and IECEx/ATEX Zone 0,1 Approved Dual Output Accelerometer, Acceleration and Temperature, Top Exit 3 Pin Connector, 10 mV/g, 10 mV/°C, ±10%



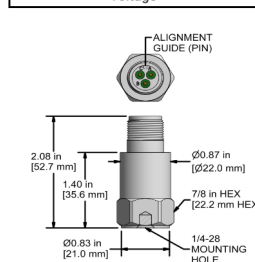
Regulatory Information

CSA 221421	T4: Ta @ -40°C to +80°C
CSA 26CA80263367X	Mining Group I: Ta @ -40°C to +121°C
CL I, DIV 1, GRP A, B, C and D	T147°C: Ta @ -40°C to +121°C
CL II, DIV 1, GRP E, F and G; CL III	T135°C: Ta @ -40°C to +80°C
Ex ia IIC T3-T4 Ga	Install per drawing INS10210
Ex ib IIC T135°C...T147°C Db	Refer to product manual
CL I, ZN 0, AEx ia IIC T3-T4 Ga	Refer to product manual
ZN 21, AEx ib IIC T135°C...T147°C Db	Refer to product manual
T3: Ta = -40°C to +121°C	Refer to product manual
T4: Ta = -40°C to +80°C	Refer to product manual
T147°C: Ta = -40°C to +121°C	Refer to product manual
T135°C: Ta = -40°C to +80°C	Refer to product manual
Install per drawing INS10187	Refer to product manual
Refer to product manual MNX10127	Refer to product manual
1600 ft (488 m) Maximum Allowable	Refer to product manual
Integral Cable Length	Refer to product manual
Approved Cabling: CB112, CB191*, CB298	Refer to product manual
(*Approved for Use in T4 Applications Only)	Refer to product manual
Requires One IS111-1B Intrinsic Safety Barrier Per	Refer to product manual
Sensor	Refer to product manual
IECEx SIR 15.0060X	Refer to product manual
Ex ia IIC T3-T4 Ga	Refer to product manual
Ex ib IIC T135°C ... T147°C Db	Refer to product manual
Ex ia I Ma	Refer to product manual
T3: Ta @ -40°C to +121°C	Refer to product manual
	Refer to product manual

TA911-1A

3 Pin Connector

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

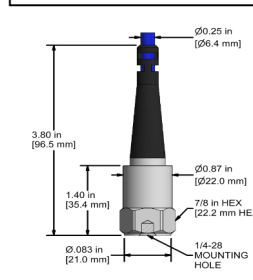


Stock Product

TA911-2C

CB191 Molded Integral Cable

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

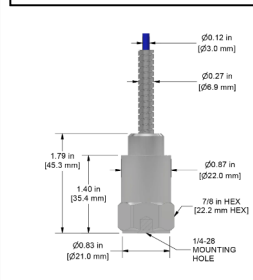


Built To Order

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	Specifications	Standard	Metric
Part Number	TA911	M/ or M8/TA911	Environmental		
Sensitivity (±10%)	10 mV/g		Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±3dB)	72-900,000 CPM	1,2-15000 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	36.5 to 212 °F	2.5 to 100 °C	Physical		
Temperature Output	10 mV/°C		Sensing Element	PZT Ceramic	
Transverse Sensitivity	≤5%		Sensing Structure	Shear Mode	
Electrical			Weight	3.2 oz	90 grams
Settling Time	< 2 seconds		Case Material	316L Stainless Steel	
Voltage Source	18-28 VDC		Mounting Thread	1/4-28 Blind Tapped Hole	
Constant Current Excitation	2-10 mA		Connector (Non-Integral)	3 Pin MIL-C-5015	
Spectral Noise @ 10 Hz	30 µg/√Hz		Resonant Frequency	1,380,000 CPM	23000 Hz
Spectral Noise @ 100 Hz	19 µg/√Hz		Mounting Torque	2 to 5 ft. lbs	2,7 to 6,8 Nm
Spectral Noise @ 1000 Hz	15 µg/√Hz		Mounting Hardware Supplied	1/4-28 stud	M6x1 or M8x1.25 Adapter Stud
Output Impedance	<100 ohm		Calibration Certificate	CA10	
Bias Output Voltage	10-14 VDC				
Case Isolation	>10 ⁸ ohm				

Typical Frequency Response

