

TA911 Series

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
CSA 26CA80263367X
CLI, DIV 1, GRP A, B, C and D
CLII, DIV 1, GRP E, F and G; CLIII
Ex ia IIC T3-T4 Ga
Ex ib IIIC T135°C...T147°C Db
CLI, ZN 0, AEx ia IIC T3-T4 Ga
ZN 21, AEx ib IIIC T135°C...T147°C Db
T3: Ta = -40°C to +121°C
T4: Ta = -40°C to +80°C
T147°C: Ta = -40°C to +121°C
T135°C: Ta = -40°C to +80°C
Install per drawing INS10187
Refer to product manual MNX10127

1600 ft (488 m) Maximum Allowable
Integral Cable Length
Approved Cabling: CB112, CB191*, CB298
(*Approved for Use in T4 Applications Only)
Requires One IS111-1B Intrinsic Safety Barrier Per
Sensor

IECEx SIR 15.0060X
Ex ia IIC T3-T4 Ga
Ex ib IIIC T135°C ... T147°C Db
Ex ia I Ma
T3: Ta @ -40°C to +121°C

T4: Ta @ -40°C to +80°C
Mining Group I: Ta @ -40°C to +121°C
T147°C: Ta @ -40°C to +121°C
T135°C: Ta @ -40°C to +80°C
Install per drawing INS10210
Refer to product manual MNX10134

Sira 15ATEX2152X
Ex ia IIC T3 -T4 Ga
T3: Ta @ -40°C to +121°C
T4: Ta @ -40°C to +80°C
Ex ib IIIC T135°C ... T147°C Db
T147°C: Ta @ -40°C to +121°C
T135°C: Ta @ -40°C to +80°C
Ex ia I Ma
Ta @ -40°C to +121°C
Install per drawing INS10211
Refer to product manual MNX10135

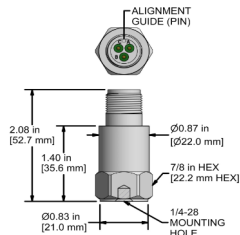
Connector Exit Entity Parameters
Ui = 28 VDC li = 120mA
Ci = 1.5nF Li = 0uH Pi = 1W

Integral Cable Entity Parameters
Ui = 28 VDC li = 120mA
Ci = 82nF Li = 336uH Pi = 1W

TA911-1A

3 Pin Connector

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

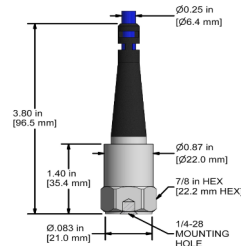


Stock Product

TA911-2C

CB191 Molded Integral Cable

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

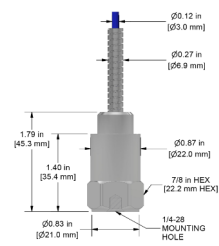


Built To Order

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

