

AC915 Series

Nonincendive Intrinsically Safe Accelerometer, CSA North America Class I, Division 1, Class II, Division 2, Class III and IECEx/ATEX Zone 0,1,2 and 21,22 Approved Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±10%



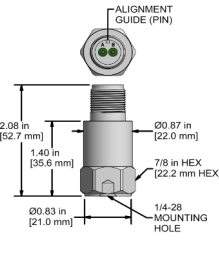
Regulatory Information

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 MNX10134
CL I, ZN 0, AEx ia IIC T3-T4 Ga	
ZN 21, AEx ib IIC T135°C...T147°C Db	
T3: Ta = -40°C to +121°C	Sira 15ATEX2152X
T4: Ta = -40°C to +80°C	Ex ia IIC T3 -T4 Ga
T147°C: Ta = -40°C to +121°C	T3: Ta @ -40°C to +121°C
T135°C: Ta = -40°C to +80°C	T4: Ta @ -40°C to +80°C
Install per drawing INS10187	Ex ib IIC T135°C ... T147°C Db
Refer to product manual MNX10127	T147°C: Ta @ -40°C to +121°C
	T135°C: Ta @ -40°C to +80°C
1600 ft (488 m) Maximum Allowable	Ex ia I Ma
Integral Cable Length	Ta @ -40°C to +121°C
Approved Cabling: CB102, CB103*, CB111, CB190*,	Install per drawing INS10211
CB193*, CB206, CB296 (*Approved for Use in T4	Refer to product manual MNX10135
Applications Only)	
Requires one IS111-IB Intrinsic Safety Barrier	Connector Exit Entity Parameters:
	Ui = 28 Vdc, li = 120 mA, Pi = 1W, Ci =
	0nF, Li = 0µH
IECEx SIR 15.0060X	
Ex ia IIC T3-T4 Ga	Integral Cable Entity Parameters
Ex ib IIC T135°C ... T147°C Db	Ui = 28 Vdc, li = 120 mA, Pi = 1W, Ci =
Ex ia I Ma	80.4nF, Li = 336µH
T3: Ta @ -40°C to +121°C	

AC915-1A

2 Pin Connector

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

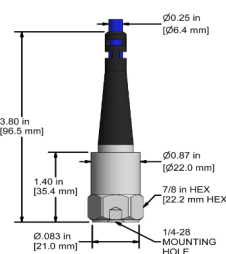


Stock Product

AC915-2C

CB193 Molded Integral Cable

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

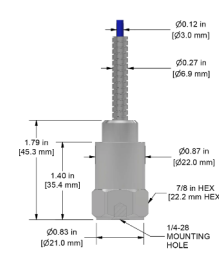


Built To Order

AC915-3C

CB296 Armored Integral Cable

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



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC915	M/ or M8/AC915	Environmental		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	± 80 g, peak		Electromagnetic Sensitivity	CE	
Transverse Sensitivity	≤5%		Sealing	Welded, Hermetic	
Electrical			Submersible Depth	200 ft.	61 m
Settling Time	<3 Seconds		Physical		
Voltage Source	18-28 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	6.5 µg/√Hz		Weight	3.2 oz	90 grams
Spectral Noise @ 100 Hz	2 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	1.8 µg/√Hz		Mounting Thread	1/4-28 Blind Tapped Hole	
Output Impedance	<100 ohm		Connector (Non-Integral)	2 Pin MIL-C-5015	
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,380,000 CPM	23000 Hz
Case Isolation	>10 ⁸ ohm		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
			Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response

