

AC915 Series



VIBRATION ANALYSIS HARDWARE

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, $\pm 10\%$



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

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 IIC 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:
 $U_i = 28 \text{ Vdc}$, $I_i = 120 \text{ mA}$, $P_i = 1 \text{ W}$, $C_i = 0 \text{ nF}$, $L_i = 0 \text{ }\mu\text{H}$

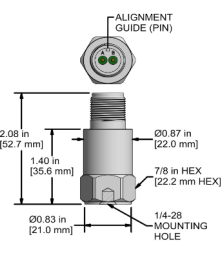
Integral Cable Entity Parameters
 $U_i = 28 \text{ Vdc}$, $I_i = 120 \text{ mA}$, $P_i = 1 \text{ W}$, $C_i = 80.4 \text{ nF}$, $L_i = 336 \mu\text{H}$

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

-AC915-1A

2 Pin Connector

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

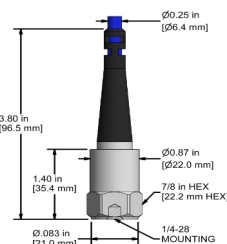


Stock Product

-AC915-2C

CB193 Molded Integral Cable

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

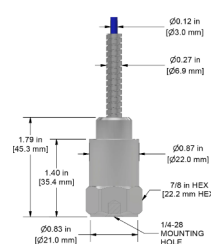


Built To Order

-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	<u>Environmental</u>		
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
<u>Electrical</u>			Submersible Depth	200 ft.	61 m
Settling Time		<3 Seconds	<u>Physical</u>		
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

