

AC915 Series

Nonincendive Intrinsically Safe Accelerometer, CSA North America Class 1, Division 1 and IECEx/ATEX Zone 0,1 Approved Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, $\pm 10\%$



Yekan
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Regulatory Information

CSA 221421

Ex ia IIC T3/T4 Ga

Ex ia I Ma

AEx ia IIC T3/T4

CL I Groups A, B, C, D

CL II Groups E, F, G; CL III

CL I, Zone 0

Operating Temp Code: T3

Ambient Temp Range = -40 to 121°C

Operating Temp Code: T4

Ambient Temp Range = -40 to 80°C

Control Drawing INS10012

Ex ia IIC T3 -40°C < Ta < +121°C

Ex ia IIC T4 -40°C < Ta < +80°C

Sira 15ATEX2152X

IECEx SIR 15.0060X

Ex ia IIC T3/T4 Ga

Ex ib IIC T135°C...T143°C Db

Operating Temp Code: T143°C Db

Ambient Temp Range = -40°C to

121°C

Operating Temp Code: T135°C

Ambient Temp Range = -40°C to

+80°C

Ex ia I Ma

Connector Exit Entity Parameters:

Ui = 28 Vdc, Ii = 120 mA, Pi = 1W, Ci = 0nF, Li = 0μH

1600 ft (488 m) Maximum Allowable

Integral Cable Length

Approved Cabling: CB102, CB103*, CB111,

CB190*, CB193*, CB296 (*Approved for Use in T4

Applications Only)

Requires one IS111-1B Intrinsic Safety Barrier

Integral Cable Entity Parameters

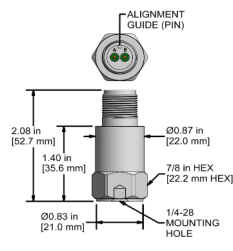
Ui = 28 Vdc, Ii = 120 mA, Pi = 1W, Ci =

= 80.4nF, Li = 336μH

AC915-1A

2 Pin Connector

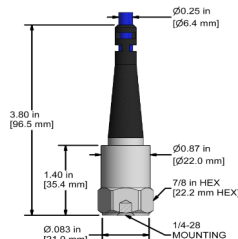
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



AC915-2C

CB193 Molded Integral Cable

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

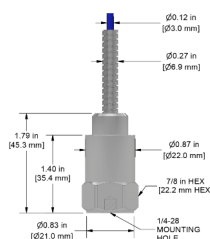


Built To Order

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 ($\pm 10\%$)		100 mV/g	Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response ($\pm 3\text{dB}$)	30-900,000 CPM	0.5-15000 Hz	Maximum Shock Protection		5,000 g, peak
Dynamic Range		± 80 g, peak	Electromagnetic Sensitivity		CE
Electrical			Sealing		Welded, Hermetic
Settling Time		<3 Seconds	Submersible Depth	200 ft.	61 m
Voltage Source		18-28 VDC	Physical		
Constant Current Excitation		2-4 mA	Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz		6.5 $\mu\text{g}/\sqrt{\text{Hz}}$	Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz		2 $\mu\text{g}/\sqrt{\text{Hz}}$	Weight	3.2 oz	90 grams
Spectral Noise @ 1000 Hz		1.8 $\mu\text{g}/\sqrt{\text{Hz}}$	Case Material		316L Stainless Steel
Output Impedance		<100 ohm	Mounting Thread		1/4-28 Blind Tapped Hole
Bias Output Voltage		10-14 VDC	Connector (Non-Integral)		2 Pin MIL-C-5015
Case Isolation		>10 ⁸ ohm	Resonant Frequency	1,380,000 CPM	23000 Hz
			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

