

# AC915 Series

Low Capacitance, Intrinsically Safe Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±10%



## Regulatory Information

Ex ia IIC T3/T4

CL I Groups A, B, C, D

CL II Groups F, G

CL III

CSA 22 UKEX 1408X

Ex ia IIC T3/T4 Ga

Ex ia I Ma

Sira 15 ATEX 2152X

Operating Temperature Code: T4

Ambient Temperature Range = -40 to 80°C

Operating Temperature Code: T3

Ambient Temperature Range = -40 to 125°C

Ui = 28 Vdc li = 100 mA

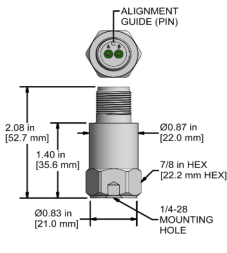
CSA 221421

Ex ia IIC T3/T4 Ga

Ex ia I Ma

### AC915-1A 2 Pin Connector

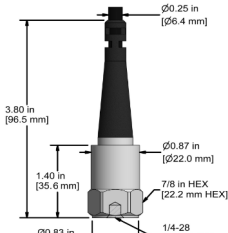
| Connector | Polarity         |
|-----------|------------------|
| Pin       |                  |
| A         | (+) Signal/Power |
| B         | (-) Common       |



Stock Product

### AC915-2C CB193 Integral Cable

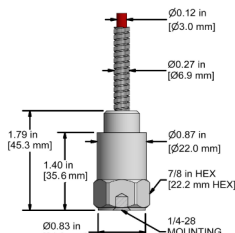
| Conductor | Polarity         |
|-----------|------------------|
| Red       | (+) Signal/Power |
| Black     | (-) Common       |
| Shield    | Cable Drain Wire |



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        |               |
| Frequency Response (±10%)   | 60-600,000 CPM | 1.0-10000 Hz   | Electromagnetic Sensitivity | CE                   |               |
| Dynamic Range               | ± 80 g, peak   |                | Sealing                     | Welded, Hermetic     |               |
| <u>Electrical</u>           |                |                | Submersible Depth           | 200 ft.              | 61 m          |
| Settling Time               | <3 Seconds     |                | <u>Physical</u>             |                      |               |
| Voltage Source (IEPE)       | 18-28 VDC      |                | Sensing Element             | PZT Ceramic          |               |
| Constant Current Excitation | 2-4 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     |                |                             | 0.83 in (21 mm)      |               |
| Output Impedance            | <100 ohm       |                |                             | Diameter Mounting    |               |
| Bias Output Voltage         | 10-14 VDC      |                |                             |                      |               |