

TA915 Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Intrinsically Safe Dual Output Accelerometer,
Acceleration and Temperature, Top Exit 3 Pin Connector, 100 mV/g,
10 mV/°C, ±10%



IECEx
IECEx SIR 15.0060X



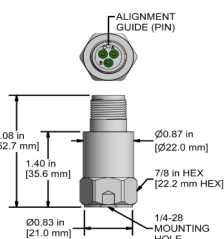
Regulatory Information

| | |
|---|-------------------------------|
| Ex ia IIC T3 Ga | Ui = 28 Vdc li = 112 mA |
| AEx is IIC T3 Ga | Pi = 1W, Ci = 1.5nF, Li = 0µH |
| CLI Groups A, B, C, D | CSA 221421 |
| CLII Groups E, F, G; CLIII | Sira 15ATEX2152X |
| CLI, Zone 0 | Ex ia IIC T3 Ga |
| Operating Temperature Code: T3 | |
| Ambient Temperature Range = -40 to 80°C | IECEx SIR 15.0060X |
| Control Drawing INS10012 | Ex ia IIC T3 Ga |

TA915-1A

3 Pin Connector

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

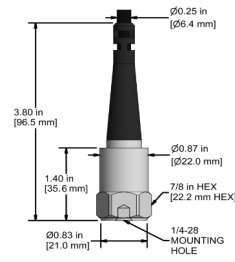


Stock Product

TA915-2C

Integral Cable

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

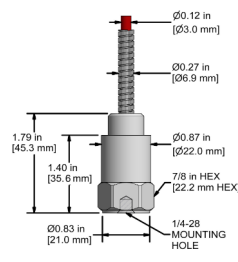


Built To Order

TA915-3C

Armored Integral Cable

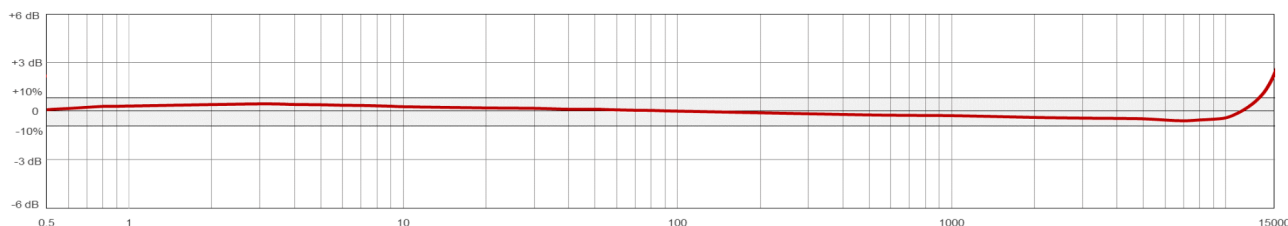
| Conductor | Polarity |
|-----------|-------------------------|
| Red | (+) Signal/Power |
| Black | (-) Common |
| White | (+) Temperature Voltage |
| Shield | Cable Drain Wire |



Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|---------------------------|----------------|----------------------|-----------------------------|---------------|----------------------|
| Part Number | TA915 | M/TA915 | Environmental | | |
| Sensitivity (±10%) | | 100 mV/g | 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%) | 60-360,000 CPM | 1.0-6000 Hz | Electromagnetic Sensitivity | | CE |
| Dynamic Range | | ± 80 g, peak | Sealing | | Welded, Hermetic |
| Electrical | | | Physical | | |
| Settling Time | | <3 seconds | Sensing Element | | PZT Ceramic |
| Voltage Source (IEPE) | | 18-28 VDC | Sensing Structure | | Shear Mode |
| Spectral Noise @ 10 Hz | | 30 µg/√Hz | Weight | 3.2 oz | 91 grams |
| Spectral Noise @ 100 Hz | | 19 µg/√Hz | Case Material | | 316L Stainless Steel |
| Spectral Noise @ 1000 Hz | | 15 µg/√Hz | Mounting | | 1/4-28 |
| Output Impedance | | <100 ohm | Connector (Non-Integral) | | 3 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 |
| | | | Mounting Hardware | 1/4-28 stud | M6x1 Adapter Stud |
| | | | Calibration Certificate | | CA10 |

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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