

TA916 Series



VIBRATION ANALYSIS HARDWARE

Intrinsically Safe Dual Output Accelerometer, Acceleration and Temperature, 100 mV/g, 10 mV/°C, 3 Pin Side Exit Connector;



IECEx
IECEx SIR 15.0060X



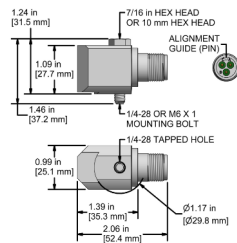
Regulatory Information

| | |
|---|-------------------------------|
| 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 |

TA916-1A

3 Pin Connector

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

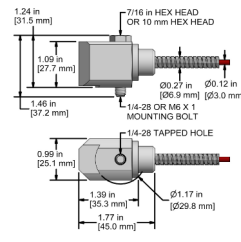


Stock Product

TA916-3C

CB218 Armored Integral Cable

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

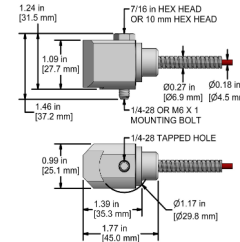


Built To Order

TA916-9C

CB191 Integral Cable

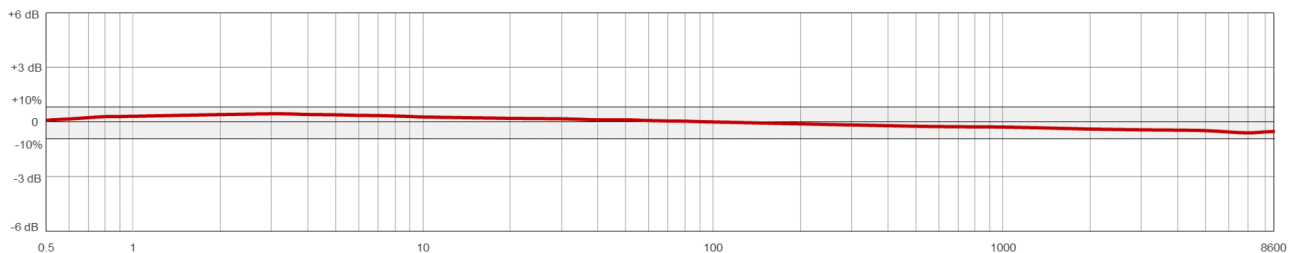
| Conductor | Polarity |
|-----------|-------------------------|
| Red | (+) Signal/Power |
| Black | (-) Common |
| White | (+) Temperature Voltage |
| Shield | Cable Drain Wire |



Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|---------------------------|----------------------|-------------|--------------------------|----------------------|-------------------|
| Part Number | TA916 | M/TA916 | Environmental | | |
| Sensitivity (±10%) | 100 mV/g | | Temperature Range | -40 to 250°F | -40 to 121°C |
| Frequency Response (±3dB) | 30-516,000 CPM | 0.5-8600 Hz | Physical | | |
| Dynamic Range | ± 80 g, peak | | Sensing Element | PZT Ceramic | |
| Electrical | | | Sensing Structure | Shear Mode | |
| Settling Time | <3 Seconds | | Weight | 5.3 oz | 151 grams |
| Voltage Source (IEPE) | 18-28 VDC | | Case Material | 316L Stainless Steel | |
| Spectral Noise @ 10 Hz | 30 μg/√Hz | | Mounting | 1/4-28 | |
| Spectral Noise @ 100 Hz | 19 μg/√Hz | | Connector (Non-Integral) | 3 Pin MIL-C-5015 | |
| Spectral Noise @ 1000 Hz | 15 μg/√Hz | | Resonant Frequency | 1,260,000 CPM | 21000 Hz |
| Output Impedance | <100 ohm | | Mounting Torque | 2 to 5 ft. lbs | 2,7 to 6,8 Nm |
| Bias Output Voltage | 10-14 VDC | | Mounting Hardware | 1/4-28 Captive Bolt | M6x1 Captive Bolt |
| Case Isolation | >10 ⁸ ohm | | Calibration Certificate | CA10 | |

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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