

# Model BI-5113A



Proven Condition Monitoring Solutions

## 100mV/g High Performance Compact Accelerometer

- Compact size, top exit
- +/- 80g dynamic range
- Connector or integral cable options
- Shear mode design reduces sensitivity to base strain and thermal transients
- Ground isolated



Actual Size

### Performance

Sensitivity (+/-5%)	100mV/g
Acceleration range	±80g peak
Frequency response (+/-5%)	10 - 2000Hz
Frequency response (+/-10%)	1 - 10000Hz
Frequency response (+/-3dB)	0.3 - 15000Hz

### Electrical

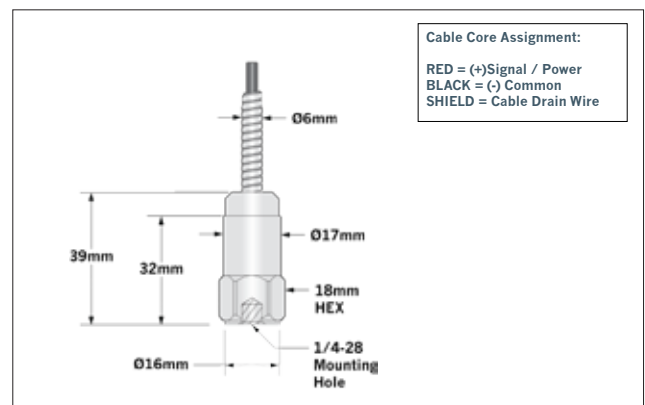
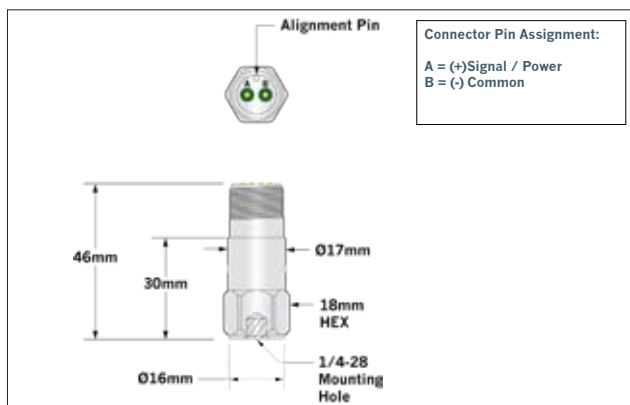
Voltage source	18 - 30VDC
Constant current source	2 - 10mA
Spectral noise @ 10Hz	8µg/√Hz
Spectral noise @ 100Hz	4µg/√Hz
Spectral noise @ 1000Hz	2µg/√Hz
Output impedance	<100 ohm
Bias output voltage	10 - 14VDC
Grounding	Case isolated Internally screened
Settling time	<2.5 seconds

### Environmental

Temperature range	-50 to +120 Deg C
Shock limit	5000g peak
Sealing	Welded, Hermetic

### Physical

Sensing element	PZT ceramic
Sensing structure	Shear mode
Weight	51 grams
Case Material	316L stainless steel
Mounting	1/4-28 tapped hole
Mounting torque	3 to 6.5 Nm
Mounting hardware (metric)	M6 x 1 adaptor stud
Mounting hardware (imperial)	1/4-28 adaptor stud
Output connector	2 pin, MIL-C-5015 style
International compliance	CE



### Ordering Information

**Interface option**  
0 = Connector  
1 = Integral cable  
2 = Armoured cable

**Mounting stud**  
0 = Metric (M6)  
1 = Imperial (1/4-28)

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**Cable length**  
Metric (meters) = xxxM  
Imperial (feet) = xxxF

**Cable termination**  
00 = No termination  
01 = BNC Plug  
02 = BNC Jack (Skt)  
03 = MIL-C-5015 termination