Model BI-5114A

BERAN Proven Condition Monitoring Solutions

100mV/g High Performance Compact Accelerometer

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



Performance

Sensitivity (+/-5%)	100mV/g
Acceleration range	±80g peak
Frequency response (+/-5%)	10 - 2000Hz
Frequency response (+/-10%)	1 - 2500Hz
Frequency response (+/-3dB)	0.3 - 10000Hz

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 seconds

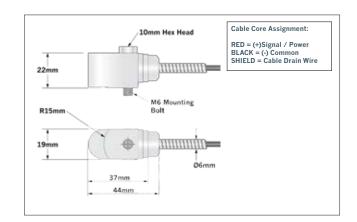
10mm Hex Head Alignment Pir M6 Mounting Bolt Connector Pin Assignment: A = (+)Signal / Power B = (-) Common

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	93 grams
Case Material	316L stainless steel
Mounting torque	3 to 6.5 Nm
Mounting hardware (metric)	M6 x 1 captive bolt
Mounting hardware (imperial)	1/4-28 captive bolt
Output connector	2 pin, MIL-C-5015 style
International compliance	CE



Ordering Information

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

Mounting bolt 0 = Metric (M6) 1 = Imperial (1/4-28) Cable termination 00 = No termination 01 = BNC Plug 02 = BNC Jack (Skt) 03 = MIL-C-5015 termination

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