

Model BI-5301V



Proven Condition Monitoring Solutions

4mV/mm/s Piezo Velocity Sensor

- Top exit
- Velocity output
- Connector or integral cable options
- Shear mode design reduces sensitivity to base strain and thermal transients
- Ground isolated



Actual Size

Performance

Sensitivity (+/-10%)	4mV/mm/s
Dynamic range	±1250 mm/s peak
Frequency response (+/-10%)	2 - 4500Hz
Frequency response (+/-3dB)	1.5 - 12000Hz

Electrical

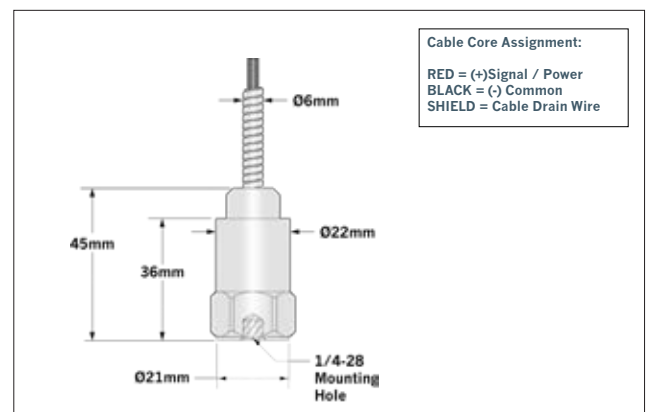
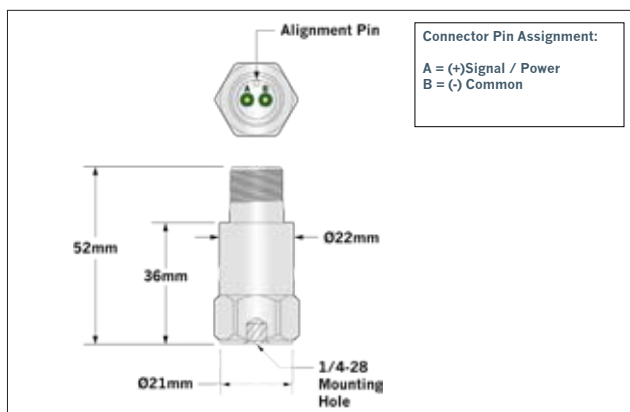
Voltage source	18 - 30VDC
Constant current source	2 - 10mA
Spectral noise @ 10Hz	53µ IPS/√Hz
Spectral noise @ 100Hz	2µ IPS/√Hz
Spectral noise @ 1000Hz	0.7µ IPS/√Hz
Output impedance	<100 ohm
Bias output voltage	10 - 14VDC
Grounding	Case isolated Internally screened
Settling time	<5 seconds

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	90 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