Model BI-5601T

BERAN
Proven Condition Monitoring Solutions

100mV/g Accelerometer with Temperature Sensor

- Dual output, top exit
- Integral temperature sensor
- Connector or integral cable options
- Shear mode design reduces sensitivity to base strain and thermal transients
- Ground isolated

Actual Size

Performance

Sensitivity (+/-10%)	100mV/g
Dynamic range	±50g peak
Frequency response (+/-10%)	2 - 12000Hz
Frequency response (+/-3dB)	0.5 - 15000Hz
Temperature measurement range	+5 to +120 Deg C
Temperature output	10mV/°C

Electrical

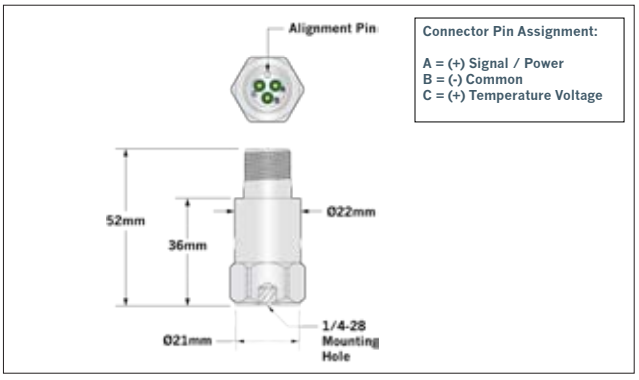
Voltage source	18 - 30VDC
Constant current source	2 - 10mA
Spectral noise @ 10Hz	8µg/√Hz
Spectral noise @ 100Hz	0.82µg/√Hz
Spectral noise @ 1000Hz	0.3µg/√Hz
Output impedance	<100 ohm
Bias output voltage	10 - 14VDC
Grounding	Case isolated Internally screened
Settling time	<2.5 seconds

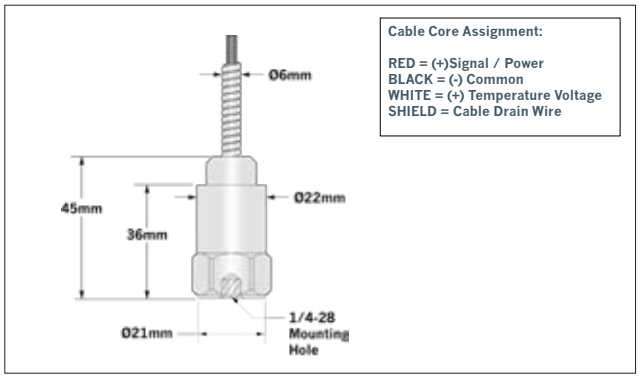
Environmental

Temperature range	-40 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	3 pin, MIL-C-5015 style
International compliance	CE





Ordering Information

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

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

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

Cable termination
00 = No termination