BH-1 Specifications

Responsivity: Acceleration Output: 10.2 V/m/sec^2, nominal
Differential Velocity: 3500 V/m/sec, nominal

Bandwidth: 1 Hz (-6 dB Point, +90 Degree Phase Point) to
200 Hz (-90 degree Phase Point), Nominal

Full-Scale Signals: +/- 4.0 V minimum voltage from accelerometer outputs
Corresponding to +/- 0.04 g input acceleration

+/- 8.0 V minimum differential voltage from velocity outputs
Corresponding to +/- 2.3 x 10^{-3} m/sec input velocity

Note that for frequencies above 27.1 Hz, the full-scale input velocity is less, owing to clipping of the accelerometer stage of the sensor.

Noise Equivalent Velocity:
~ 1 x 10^{-9} m/sec-rtHz for $f \geq 4$ Hz
~ 5 x 10^{-9} m/sec-rtHz at f = 2 Hz
~2 x 10^{-8} m/sec-rtHz at f = 1 Hz

Power: +/- 5 V, 0.9 mA, nominal
Absolute maximum input voltage is +/- 7.5V

Dimensions: 2.0" diameter x 6.25" long
See Figure 1

Mounting: 4 of 8-32 mounting holes on 1.50" diameter bolt circle
See Figure 1

Axes Orientation: Unchanged from earlier versions. See Figure 1. The sensitive axes form a right-handed (RH) coordinate system with +Z up. A positive output voltage is obtained for acceleration/velocity along the +axes

Required Alignment of Axes with Local Gravity:
X, Y Axes within +/- 4° of horizontal
Z Axis within +/- 8° of vertical