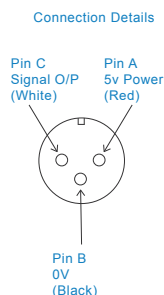
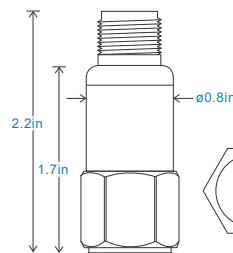


AC acceleration output via 3 Pin MS Connector

- Low voltage
- Ultra low power consumption
- Customisable features

Building services, Pulp and Paper,
Mining, Metals, Utilities, Automotive,
Water, Pharmaceutical



Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table $\pm 10\%$
	Nominal 80Hz at 71°F
Frequency Response	18cpm (0.3Hz) to 600kcpm (10kHz) $\pm 10\%$
Isolation	Base isolated
Range	see: 'How To Order' table @ 5V power
Transverse Sensitivity	Less than 5%
Amplitude Linearity	$\pm 1\%$

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Shear
Mounting Torque	5.9ft. lbs
Weight	3.7 oz. (nominal)
Screened Cable Assembly Connector	see: www.hansfordsensors.com for options HS-AA005 - non-booted HS-AA068 or HS-AA069 - booted
Mounting Threads	see: 'How To Order' table

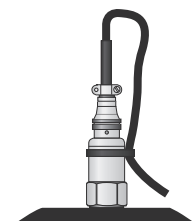
Electrical Noise	< 500µg
Power Requirements	5V nominal (other voltages 1.8 to 24V on request)
Current Consumption	100µA nominal at 5V supply (60µA at 1.8V)
Bias Voltage	50% of supply voltage
Settling Time	1 second
Output Impedance	100 Ohms max.
Case Isolation	>10 ⁸ Ohms at 500 Volts

Operating Temperature Range	-58 to 257°F
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

The graph shows the sensitivity change percentage as a function of frequency for a system with a 100 Hz natural frequency. The x-axis is logarithmic, ranging from 0 to 10,000 Hz. The y-axis ranges from -50% to 50%. The curve starts at 0% for low frequencies, drops sharply to a minimum of about -45% at 100 Hz, and then gradually returns towards 0% as the frequency increases beyond 1,000 Hz.

Fans, Motors, Pumps, Compressors,
Centrifuges, Conveyors, Air Handlers,
Gearboxes, Rolls, Dryers, Presses,
Cooling, VAC, Spindles, Machine Tooling,
Process Equipment

Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)



Product Prefix
HS - Hansford Sensors

Product Series
104 - Low Power Vibration Sensor

Cable Length (if integral cable)
QXX - length specified in metres

Extra Options (if required)
F - Filtered
L - 316L Stainless Steel
RT - Temperature Output PT100
S - 90° Side Exit
T - Temperature Output

Sensitivity
010 - 10mV/g
030 - 30mV/g
050 - 50mV/g
100 - 100mV/g
250 - 250mV/g
500 - 500mV/g

Range
±200g
±66g
±40g
±20g
±8g
±4g

Resonant Frequency
25kHz (1,500kcpm)
25kHz (1,500kcpm)
25kHz (1,500kcpm)
25kHz (1,500kcpm)
25kHz (1,500kcpm)
25kHz (1,500kcpm)

Cable/Connector
01 - PUR
03 - Braided
07 - Silicon
13 - Flame Retardant
52 - 3 Pin MS
54 - M12

Mounting Threads
01 - ¼-28" UNF Female
02 - ¼-28" UNF Male
05 - Quick Fit Female
06 - M6 x 1mm Male
08 - M8 x 1.25mm Male
10 - M10 x 1.5mm Male



We reserve the right to alter the specification of this product without prior notice.

