

HS-104R Premium Triaxial Accelerometer

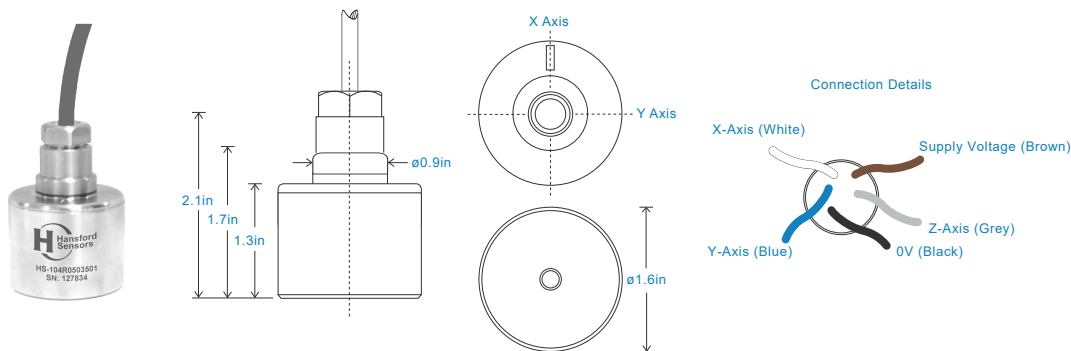
Three AC outputs via PUR cable

Key Features

- Output via three axes
- For use with data collector
- Customisable features

Industries

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



Technical Performance

Mounted Base Resonance	see 'How To Order' table (nominal) +3kHz for aluminium version
Sensitivity	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 72°F per axes
Frequency Response	120cpm (2Hz) to 600kcpm (10kHz) $\pm 5\%$ 90cpm (1.5Hz) to 720kcpm (12kHz) $\pm 10\%$ 48cpm (0.8Hz) to 900kcpm (15kHz) $\pm 3\text{dB}$
Isolation	Base isolated
Range	see: 'How To Order' table
Temperature Output	10mV/°C Standard 212°F
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel unless specified Aluminium
Sensing Element/Construction	PZT/Shear
Mounting Torque	5.9ft. lbs
Mounting Bolt Provided	see: 'How To Order' table x 1.2in long
Weight	6.8 oz. (nominal) - Stainless Steel 3.5 oz. (nominal) - Aluminium
Mounting Threads	see: 'How To Order' table
Maximum Cable Length	3,280 ft.
Standard Cable Length	16 ft.
Submersible Depth	328 ft. max (10 bar)

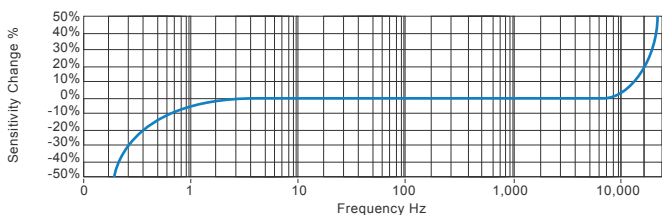
Electrical

Electrical Noise	0.1mg max
Current Range	0.5mA to 8mA
Bias Voltage	3 Volts DC
Settling Time	1 second
Output Impedance	200 Ohms max.
Case Isolation	$>10^8$ Ohms at 500 Volts

Environmental

Operating Temperature Range	-67 to 266°F
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

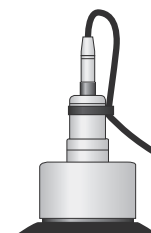
Typical Frequency Response (at 100mV/g)



Applications

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.)



How To Order

Product Prefix		Product Series											
HS - Hansford Sensors		104 - Triaxial Industrial Vibration Sensor											
H		S		1	0	4	R	X	X	X	X	X	X
Extra Options (if required)		Sensitivity		Range		Resonant Frequency		Cable/Connector		Mounting Threads			
R - Round Design		010 - 10mV/g		±800g		20kHz (1,800cpm)		35 - PUR 5 Core		01 - ¼-28" UNF Female			
T - Temperature		030 - 30mV/g		±250g		19kHz (1,680cpm)				02 - ¼-28" UNF Male			
		050 - 50mV/g		±160g		18kHz (1,560cpm)				06 - M6 x 1mm Male			
		100 - 100mV/g		±80g		17kHz (1,440cpm)				08 - M8 x 1.25mm Male			
		250 - 250mV/g		±32g		16kHz (1,320cpm)							
		500 - 500mV/g		±16g		15kHz (1,200cpm)							