

HS-104R Low Power Triaxial Accelerometer

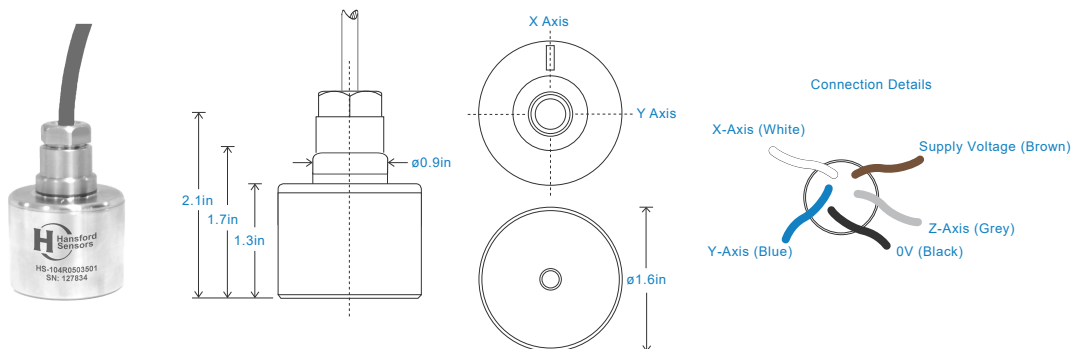
Three AC outputs via PUR cable

Key Features

- Low voltage
- 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)
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
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
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
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)

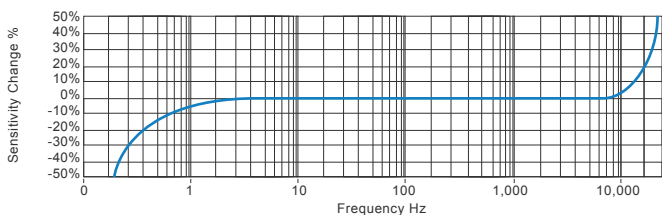
Electrical

Electrical Noise	< 500 μg
Power Requirements	5V nominal (other voltages 1.8 to 24V on request)
Current Consumption	100 μA nominal at 5V supply (60 μA 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

Environmental

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

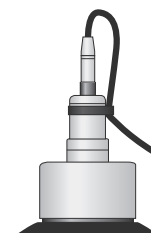
Typical Frequency Response (at 100mV/g)



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		±200g		25kHz (1,500cpm)		35 - PUR 5 Core		01 - ¼-28" UNF Female	
T - Temperature		030 - 30mV/g		±66g		25kHz (1,500cpm)				02 - ¼-28" UNF Male	
		050 - 50mV/g		±40g		25kHz (1,500cpm)				06 - M6 x 1mm Male	
		100 - 100mV/g		±20g		25kHz (1,500cpm)				08 - M8 x 1.25mm Male	
		250 - 250mV/g		±8g		25kHz (1,500cpm)					
		500 - 500mV/g		±4g		25kHz (1,500cpm)					