

HS-104R Low Power Triaxial Accelerometer

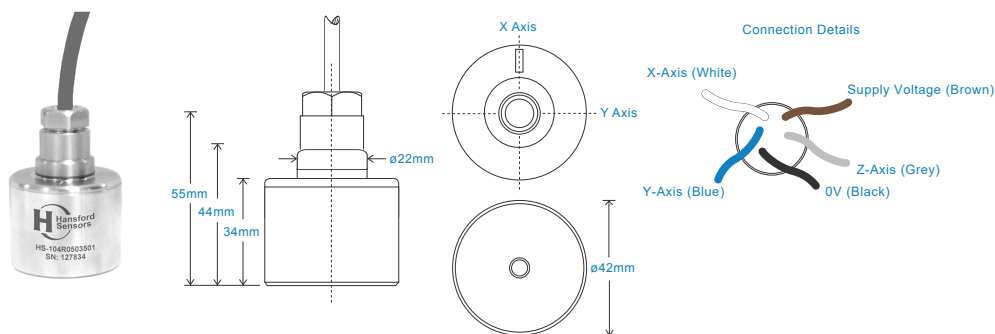
Three AC outputs via PUR cable

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 22°C per axes
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) $\pm 5\%$ 1.5Hz (90cpm) to 12kHz (720kcpm) $\pm 10\%$ 0.8Hz (48cpm) to 15kHz (900kcpm) $\pm 3\text{dB}$
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	8Nm
Mounting Bolt Provided	see: 'How To Order' table x 30mm long
Weight	194gms (nominal) - Stainless Steel
Mounting Threads	see: 'How To Order' table
Maximum Cable Length	1000 metres
Standard Cable Length	5 metres
Submersible Depth	100 metres max (10 bar)

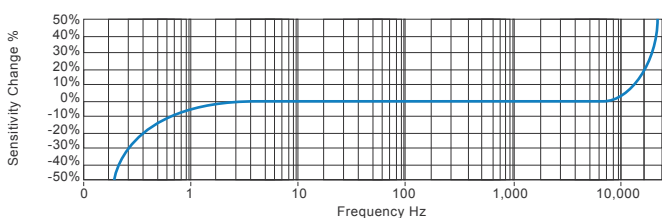
Electrical

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	-55 to 130°C
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

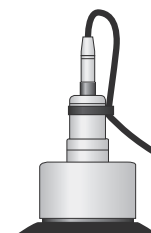
Typical Frequency Response (at 100mV/g)



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



www.hansfordsensors.com
sales@hansfordsensors.com

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

TS924.3

