

# HS-173 Premium Triaxial Accelerometer

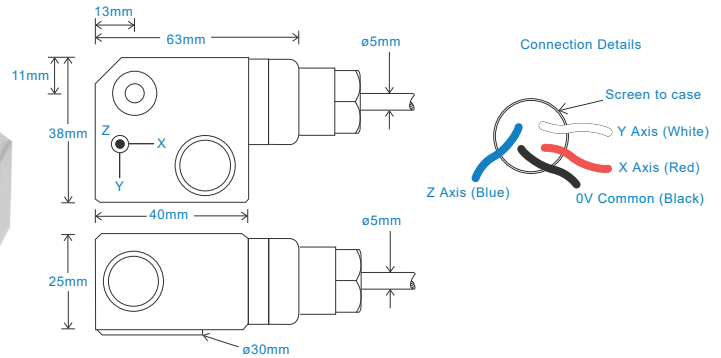
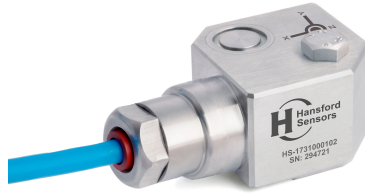
AC acceleration output via PUR cable

## Key Features

- Output via three axes
- Waterproof
- Resistant to oil

## 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 axis
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 unless specified Aluminium
Sensing Element/Construction	PZT/Shear
Mounting Torque	8Nm
Mounting Bolt Provided	see: 'How To Order' table x 30mm long
Weight	235gms (nominal) - Stainless Steel
Maximum Cable Length	1000 metres
Standard Cable Length	5 metres
Screened Cable	PUR - length to be specified with order
Mounting Threads	see: 'How To Order' table
Submersible Depth	100 metres max (10 bar)

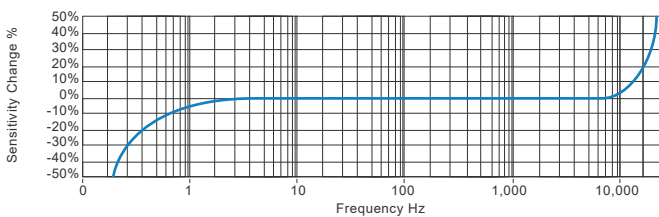
## Electrical

Electrical Noise	0.1mg max
Current Range	0.5mA to 8mA
Bias Voltage	10 - 12 Volts DC
Settling Time	1 second
Output Impedance	200 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	173 - Triaxial Industrial Vibration Sensor										
<b>H</b>	<b>S</b>	<b>1</b>	<b>7</b>	<b>3</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
Extra Options (if required) AL - Aluminium Material F - Filtered		Sensitivity		Range		Resonant Frequency		Cable/Connector		Mounting Threads	
		010 - 10mV/g		$\pm 800\text{g}$		20kHz (1,800kcpm)		01 - PUR		02 - 1/4-28" UNF Male	
		030 - 30mV/g		$\pm 250\text{g}$		19kHz (1,680kcpm)				06 - M6 x 1mm Male	
		050 - 50mV/g		$\pm 160\text{g}$		18kHz (1,560kcpm)				08 - M8 x 1.25mm Male	
		100 - 100mV/g		$\pm 80\text{g}$		17kHz (1,440kcpm)					
		250 - 250mV/g		$\pm 32\text{g}$		16kHz (1,320kcpm)					
		500 - 500mV/g		$\pm 16\text{g}$		15kHz (1,200kcpm)					



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