

HS-173 Premium Triaxial Accelerometer

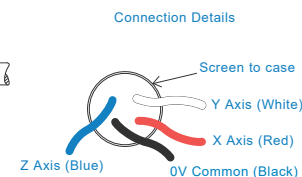
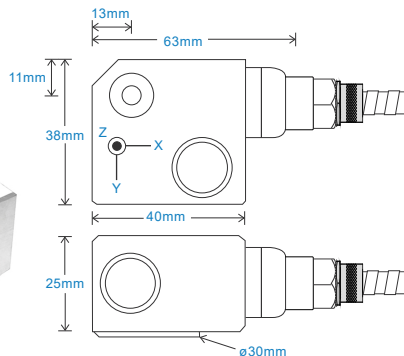
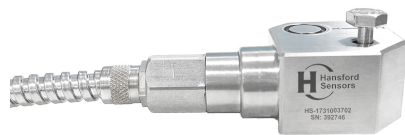
AC acceleration output via 4 Core Polyolefin HFFR with Protective Conduit

Key Features

- For use with data collector
- Customisable features
- 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) +3kHz for aluminium version
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) $\pm 3dB$
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 115gms (nominal) - Aluminium
Maximum Cable Length	1000 metres
Standard Cable Length	5 metres
Screened Cable	Polyolefin HFFR - length to be specified with order
Mounting Threads	see: 'How To Order' table
Submersible Depth	100 metres max (10 bar)

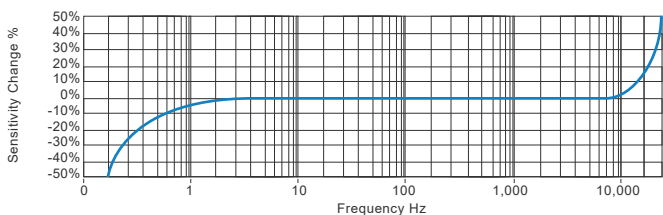
Electrical

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

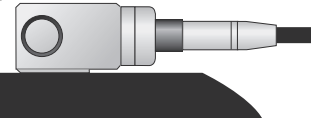
Typical Frequency Response (at 100mV/g)



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										
	H	S	1	7	3	X	X	X	X	X	X
Extra Options (if required)	AL - Aluminium Material F - Filtered		Sensitivity		Range	Resonant Frequency		Cable/Connector		Mounting Threads	
			010 - 10mV/g	$\pm 800g$	$\pm 250g$	20kHz (1,800kcpm)	37 - 4 Core Polyolefin HFFR with Protective Conduit		02 - ¼-28" UNF Male		
			030 - 30mV/g	$\pm 250g$	$\pm 250g$	19kHz (1,680kcpm)			06 - M6 x 1mm Male		
			050 - 50mV/g	$\pm 160g$	$\pm 160g$	18kHz (1,560kcpm)			08 - M8 x 1.25mm Male		
			100 - 100mV/g	$\pm 80g$	$\pm 80g$	17kHz (1,440kcpm)					
			250 - 250mV/g	$\pm 32g$	$\pm 32g$	16kHz (1,320kcpm)					
			500 - 500mV/g	$\pm 16g$	$\pm 16g$	15kHz (1,200kcpm)					



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