

HS-173R Premium Triaxial Accelerometer

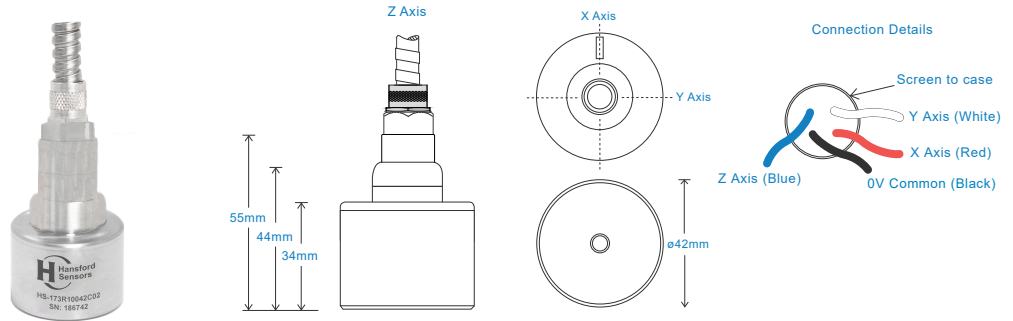
AC acceleration output via 4 Core Screened FEP Cable with Protective Conduit

Key Features

- Output via three axes
- For use with data collector
- Resistant to oil
- Protective Conduit

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
Maximum Cable Length	1000 metres
Standard Cable Length	5 metres
Screened Cable	4 Core Screened FEP- length to be specified with order
Mounting Threads	see: 'How To Order' table
Submersible Depth	100 metres max (10 bar)

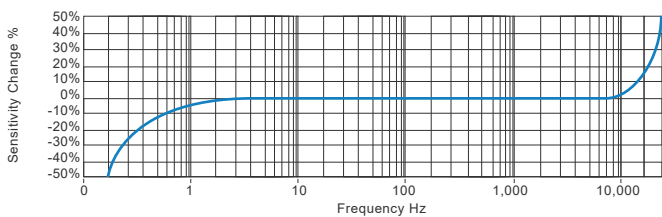
Electrical

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 150°C
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

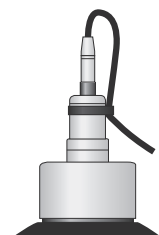
Typical Frequency Response (at 100mV/g)



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	R	X	X	X	X	X
Extra Options (if required)	F - Filtered		R - Round Design		Sensitivity		Range	Resonant Frequency		Cable/Connector	Mounting Threads
					010 - 10mV/g	$\pm 800\text{g}$	20kHz (1,800kcpm)	42C - 4 Core Screened FEP Cable with Protective Conduit		01 - 1/4-28" UNF Female	
					030 - 30mV/g	$\pm 250\text{g}$	19kHz (1,680kcpm)			02 - 1/4-28" UNF Male	
					050 - 50mV/g	$\pm 160\text{g}$	18kHz (1,560kcpm)			06 - M6 x 1mm Male	
					100 - 100mV/g	$\pm 80\text{g}$	17kHz (1,440kcpm)			08 - M8 x 1.25mm Male	
					250 - 250mV/g	$\pm 32\text{g}$	16kHz (1,320kcpm)				
					500 - 500mV/g	$\pm 16\text{g}$	15kHz (1,200kcpm)				



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

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