HS-173R Premium Triaxial Accelerometer

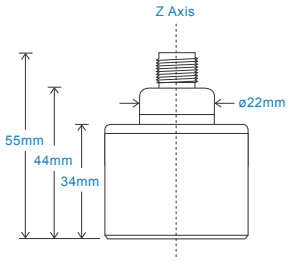
Three AC outputs via M12 Connector

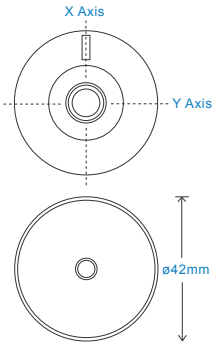
Key Features

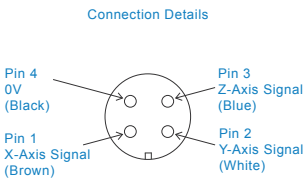
- Output via three axies
- For use with data collector
- Customisable features

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical







Technical Performance

Mounted Base Resonance	see 'How To Order' table (nominal)
	+3kHz for aluminium version
Sensitivity	see: 'How To Order' table ±10%
	Nominal 80Hz at 22°C per axies
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 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	194gms (nominal) - Stainless Steel
	100gms (nominal) - Aluminium
Screened Cable Assembly	HS-AC010 - straight
Mounting Threads	see: 'How To Order' table

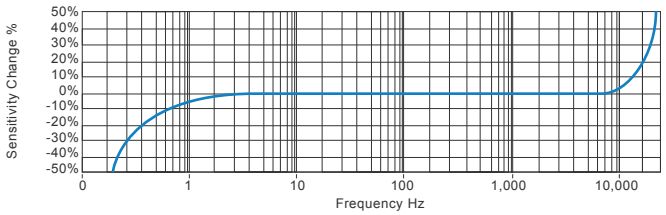
Electrical

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 130ºC
Sealing	IP67
Maximum Shock	5000g
EMC	EN61326-1:2013

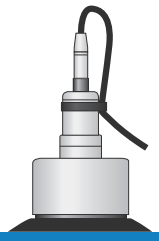
Typical Frequency Response (at 100mV/g)



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
HS - Hansford Sensors

Product Series
173 - Triaxial Industrial Vibration Sensor

Cable/Connector
54 - M12

H	S	1	7	3	X	X	X	X	X	X	X	X

Extra Options (if required)
R - Round Design
AL - Aluminium Material
F - Filtered

Sensitivity	Range	Resonant Frequency
010 - 10mV/g	±800g	20kHz (1,800kcpm)
030 - 30mV/g	±250g	19kHz (1,680kcpm)
050 - 50mV/g	±160g	18kHz (1,560kcpm)
100 - 100mV/g	±80g	17kHz (1,440kcpm)
250 - 250mV/g	±32g	16kHz (1,320kcpm)
500 - 500mV/g	±16g	15kHz (1,200kcpm)

Mounting Threads
01 - ¼-28" UNF Female
02 - ¼-28" UNF Male
06 - M6 x 1mm Male
08 - M8 x 1.25mm Male

Hansford Sensors
Excellence in Vibration Monitoring

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