HS-173R Premium Triaxial Accelerometer

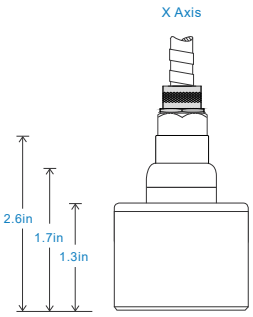
AC acceleration output via 4 Core Screened FEP Cable with Protective Conduit

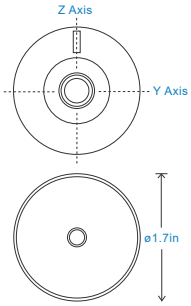
Key Features

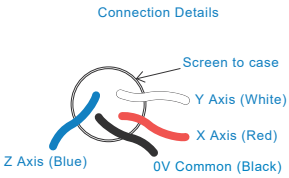
- Output via three axes
- For use with data collector
- Resistant to oil
- Protective Conduit

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 ±10%
	Nominal 80Hz at 72°F per axies
Frequency Response	120cpm (2Hz) to 600kcpm (10kHz) ± 5%
	90cpm (1.5Hz) to 720kcpm (12kHz) ± 10%
	48cpm (0.8Hz) to 900kcpm (15kHz) ± 3dB
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	5.9ft. lbs
Weight	6.8 oz. (nominal) - Stainless Steel
Maximum Cable Length	3,280 ft.
Standard Cable Length	16 ft.
Screened Cable	4 Core Screened FEP- length to be specified with order
Mounting Threads	see: 'How To Order' table
Mounting Stud	HS-AS226, HS-AS221 or HS-AS222

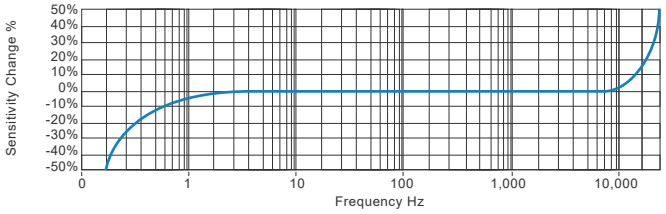
Electrical

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	-67 to 300ºF
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

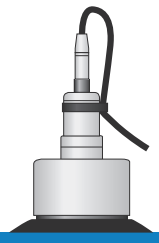
Typical Frequency Response (at 100mV/g)



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
HS - Hansford Sensors

Product Series
173 - Triaxial Industrial Vibration Sensor

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

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

Sensitivity		Range	Resonant Frequency	
010	- 10mV/g	±800g	1,200kcpm	(20kHz)
030	- 30mV/g	±250g	1,140kcpm	(19kHz)
050	- 50mV/g	±160g	1,080kcpm	(18kHz)
100	- 100mV/g	±80g	1,020kcpm	(17kHz)
250	- 250mV/g	±32g	960kcpm	(16kHz)
500	- 500mV/g	±16g	900kcpm	(15kHz)

Cable/Connector
42C - 4 Core Screened FEP Cable with Protective Conduit

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

www.hansfordsensors.com
sales@hansfordsensors.com