HS-173 Premium Triaxial Accelerometer

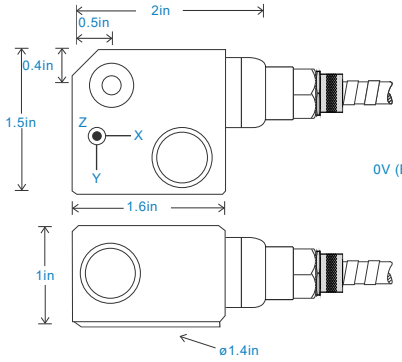
AC Acceleration Output via 5 Core PTFE Cable with Protective Conduit

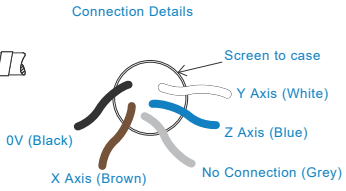
Key Features

- For use with data collector
- Protective Conduit
- 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)
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
Mounting Bolt Provided	see: 'How To Order' table x 1.2in long
Weight-Sensor Only	8.3 oz. (nominal) - Stainless Steel
Maximum Cable Length	3,280 ft.
Standard Cable Length	16 ft.
Screened Cable	PTFE Cable - length to be specified with order
Mounting Threads	see: 'How To Order' table
Mounting Stud	HS-AS226, HS-AS221 or HS-AS222
Submersible Depth	328 ft. max (10 bar)
Conduit Material	Stainless Steel
Conduit Length	Conduit Length is approx. 0.5m shorter than the cable

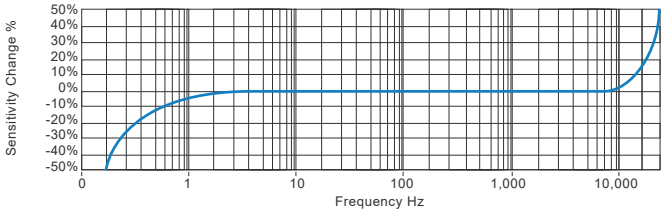
Electrical

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 300°F
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

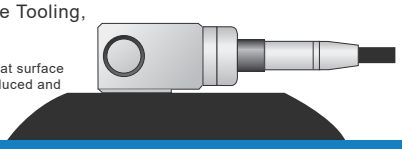
Typical Frequency Response (at 100mV/g)



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	X	X	X	X	X	X	X	X	X

Extra Options (if required)
F - Filtered
H - High Temperature
T - Temperature Output

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
38 - 5 Core PTFE Cable
38C - 5 Core PTFE Cable with Protective conduit.

Mounting Threads
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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