

HS-173 Premium Triaxial Accelerometer

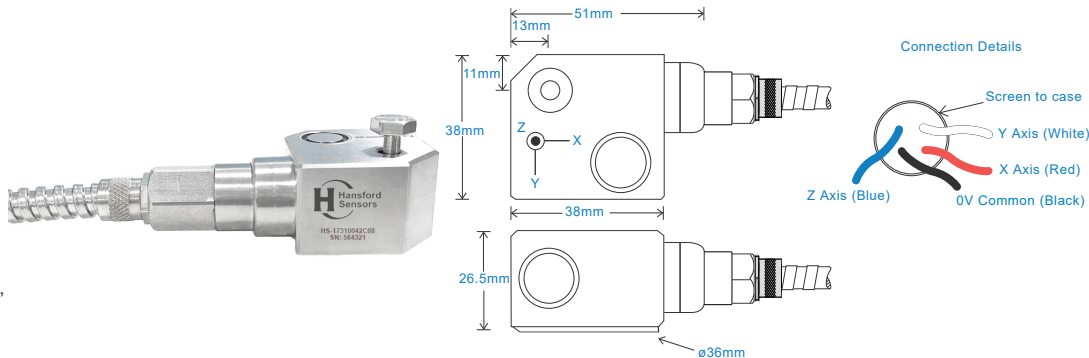
AC acceleration output via 4 Core Screened FEP Cable with Protective Conduit

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	235gms (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)

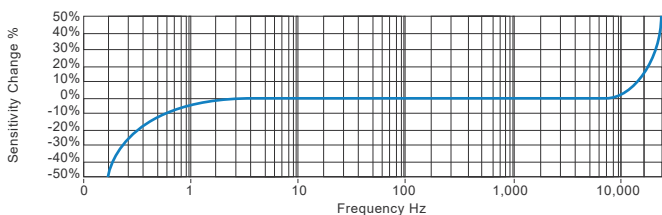
Electrical

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

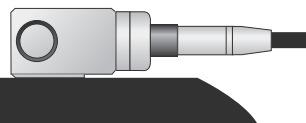
Typical Frequency Response (at 100mV/g)



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	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered		Sensitivity		Range		Resonant Frequency		Cable/Connector		Mounting Threads	
		010 - 10mV/g		±800g		20kHz (1,800cpm)		42C - 4 Core Screened		02 - ¼-28" UNF Male	
		030 - 30mV/g		±250g		19kHz (1,680cpm)		FEP Cable with		06 - M6 x 1mm Male	
		050 - 50mV/g		±160g		18kHz (1,560cpm)		Protective Conduit		08 - M8 x 1.25mm Male	
		100 - 100mV/g		±80g		17kHz (1,440cpm)					
		250 - 250mV/g		±32g		16kHz (1,320cpm)					
		500 - 500mV/g		±16g		15kHz (1,200cpm)					