

HS-183 Premium Triaxial Accelerometer

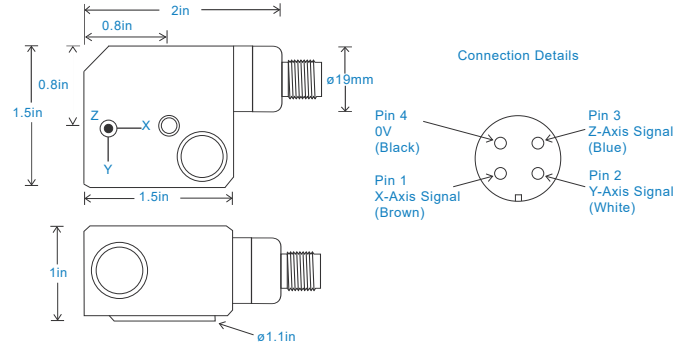
Three AC outputs via M12 Connector

Key Features

- Output via three axes
- Three way mounting option
- Customizable 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 $\pm 10\%$
Frequency Response	Nominal 80Hz at 72°F per axes 120cpm (2Hz) to 600kcpm (10kHz) $\pm 5\%$ 90cpm (1.5Hz) to 720kcpm (12kHz) $\pm 10\%$ 48cpm (0.8Hz) to 900kcpm (15kHz) $\pm 3dB$
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	8Nm
Mounting Bolt Provided	see: 'How To Order' table x 1.2in long
Weight	8.3 oz. (nominal) - Stainless Steel
Screened cable assembly	HS-AC010 - straight
Mounting Threads	see: 'How To Order' table

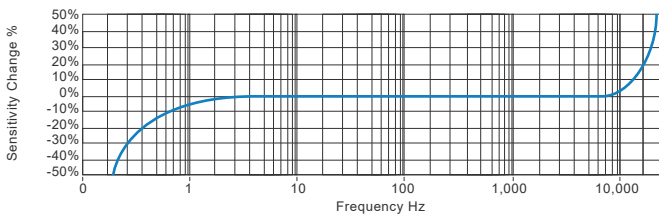
Electrical

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	-67 to 300°F
Sealing	IP67
Maximum Shock	5000g
EMC	EN61326-1:2013

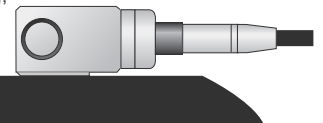
Typical Frequency Response (at 100mV/g)



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 183 - Premium Triaxial Accelerometer											
H	S	1	8	3	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered	Sensitivity		Range	Resonant Frequency		Cable/Connector		Mounting Threads				
	010 - 10mV/g		$\pm 800g$	1,200kcpm (20kHz)		54 - M12		02 - 1/4-28" UNF Male				
	030 - 30mV/g		$\pm 250g$	1,140kcpm (19kHz)				06 - M6 x 1mm Male				
	050 - 50mV/g		$\pm 160g$	1,080kcpm (18kHz)								
	100 - 100mV/g		$\pm 80g$	1,020kcpm (17kHz)								
	250 - 250mV/g		$\pm 32g$	960kcpm (16kHz)								
	500 - 500mV/g		$\pm 16g$	900kcpm (15kHz)								



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

TS1036U.5

