

# HS-183 Premium Compact Triaxial Accelerometer

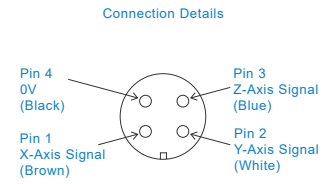
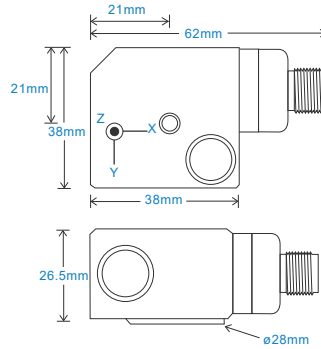
## Three AC outputs via M12 Connector

### Key Features

- Compact design
- Output via three axes
- Three way mounting option

### 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 27mm long
Weight	235gms (nominal) - Stainless Steel
Screened cable assembly	HS-AC010 - straight
Mounting Threads	see: 'How To Order' table

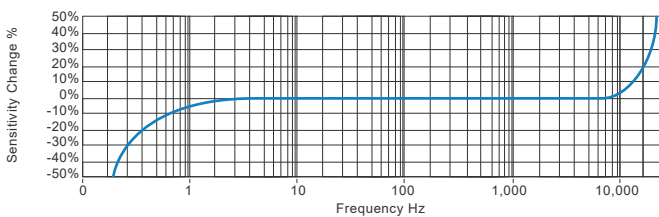
### Electrical

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	-55 to 130°C
Sealing	IP67
Maximum Shock	5000g
EMC	EN61326-1:2013

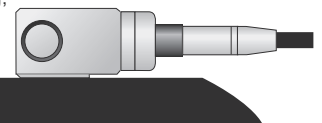
### Typical Frequency Response (at 100mV/g)



### 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

<b>Product Prefix</b> HS - Hansford Sensors	<b>Product Series</b> 183 - Premium Compact Triaxial Accelerometer										
	H	S	1	8	3	X	X	X	X	X	X
<b>Extra Options (if required)</b> F - Filtered	<b>Sensitivity</b>		<b>Range</b>	<b>Resonant Frequency</b>		<b>Cable/Connector</b>			<b>Mounting Threads</b>		
	010	- 10mV/g	$\pm 800\text{g}$	20kHz	(1,800kcpm)	54 - M12			02 - 1/8" UNF Male		
	030	- 30mV/g	$\pm 250\text{g}$	19kHz	(1,680kcpm)				06 - M6 x 1mm Male		
	050	- 50mV/g	$\pm 160\text{g}$	18kHz	(1,560kcpm)						
	100	- 100mV/g	$\pm 80\text{g}$	17kHz	(1,440kcpm)						
	250	- 250mV/g	$\pm 32\text{g}$	16kHz	(1,320kcpm)						
	500	- 500mV/g	$\pm 16\text{g}$	15kHz	(1,200kcpm)						



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