

HS-173T Premium Triaxial Accelerometer

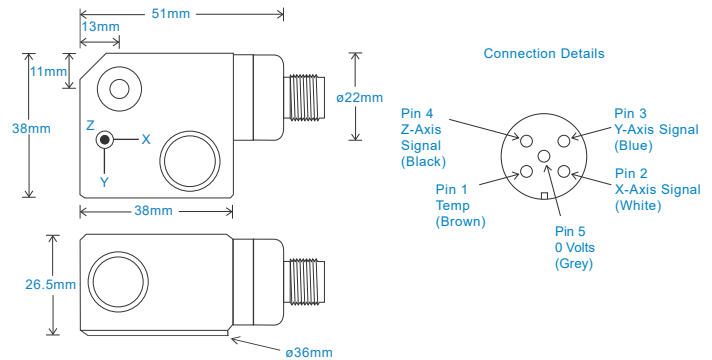
Three AC and temperature outputs via M12 Connector

Key Features

- Temperature Output
- Output via three axes
- For use with data collector
- 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) +3kHz for aluminium version
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
Temperature Output	10mV/°C via X axis
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel unless specified Aluminium
Sensing Element/Construction	PZT/Shear
Mounting Torque	8Nm
Mounting Bolt Provided	see: 'How To Order' table x 30mm long
Weight	235gms (nominal) - Stainless Steel 115gms (nominal) - Aluminium
Screened Cable Assembly	HS-AC303 - straight HS-AC032 - right angle
Mounting Threads	see: 'How To Order' table
Mounting Stud	HS-AS226, HS-AS221 or HS-AS222

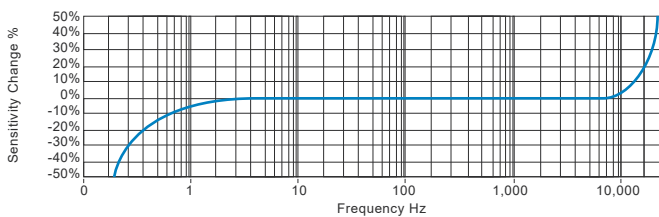
Electrical

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	-55 to 150°C
Sealing	IP67
Maximum Shock	5000g
EMC	EN61326-1:2013

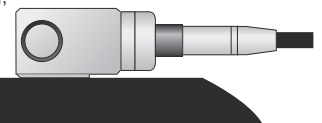
Typical Frequency Response (at 100mV/g)



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

Product Prefix	Product Series										
HS - Hansford Sensors	173 - Triaxial Industrial Vibration Sensor										
H	S	1	7	3	T	X	X	X	X	X	X
Extra Options (if required)		Sensitivity		Range		Resonant Frequency		Cable/Connector		Mounting Threads	
AL - Aluminium Material		010 - 10mV/g		$\pm 800\text{g}$		20kHz (1,200kcpm)		53 - 5 Pin M12		02 - 1/4-28" UNF Male	
F - Filtered		030 - 30mV/g		$\pm 250\text{g}$		19kHz (1,140kcpm)				06 - M6 x 1mm Male	
RT - Temperature Output PT100		050 - 50mV/g		$\pm 160\text{g}$		18kHz (1,080kcpm)				08 - M8 x 1.25mm Male	
T - Temperature Output		100 - 100mV/g		$\pm 80\text{g}$		17kHz (1,020kcpm)					
		250 - 250mV/g		$\pm 32\text{g}$		16kHz (960kcpm)					
		500 - 500mV/g		$\pm 16\text{g}$		15kHz (900kcpm)					



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

TS825.9

