

# HS-173RHT Premium Triaxial Accelerometer

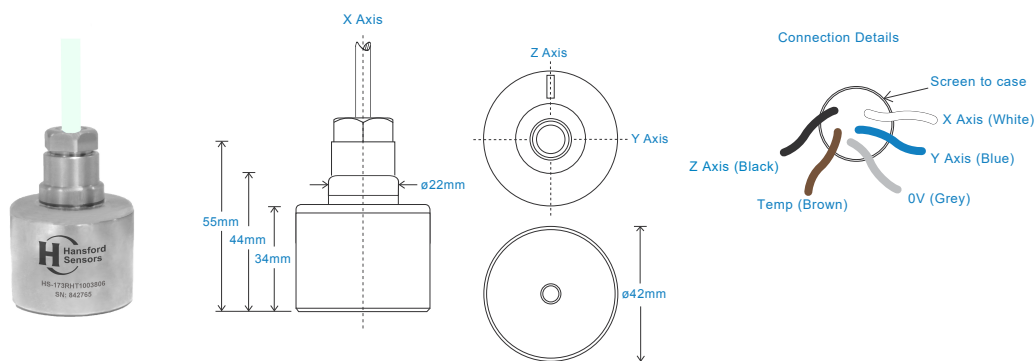
## AC Acceleration and Temperature Output via 5 Core PTFE Cable

### Key Features

- High Temperature
- For use with data collector
- Output via three axes

### 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
Temperature Output	10 mV/°C via X axis - 150°C
Transverse Sensitivity	Less than 5%

### Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Shear
Mounting Torque	8Nm
Weight	194gms (nominal) - Stainless Steel
Maximum Cable Length	1000 metres
Standard Cable Length	5 metres
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	100 metres max (10 bar)

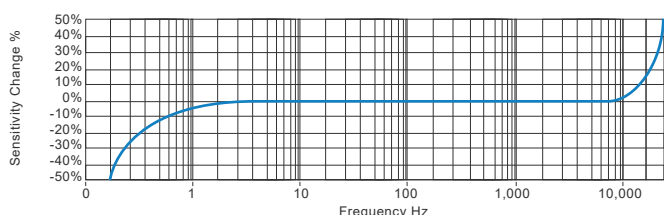
### Electrical

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

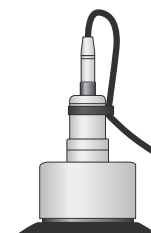
### Typical Frequency Response (at 100mV/g)



### 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	R	H	T	X	X	X	X	X	X	X
Extra Options (if required)			Sensitivity		Range		Resonant Frequency		Cable/Connector			Mounting Threads		
F - Filtered			010 - 10mV/g		±800g		20kHz (1,200kcpm)		38 - 5 Core PTFE Cable			01 - ¼-28" UNF Female		
R - Round Design			030 - 30mV/g		±250g		19kHz (1,140kcpm)		38C - 5 Core PTFE Cable			02 - ¼-28" UNF Male		
H - High Temperature			050 - 50mV/g		±160g		18kHz (1,080kcpm)		with Protective conduit.			06 - M6 x 1mm Male		
T - Temperature Output			100 - 100mV/g		±80g		17kHz (1,020kcpm)					08 - M8 x 1.25mm Male		
			250 - 250mV/g		±32g		16kHz (960kcpm)							
			500 - 500mV/g		±16g		15kHz (900kcpm)							



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We reserve the right to alter the specification of this product without prior notice TS1133.6

