# HS-173 Premium Triaxial Accelerometer AC acceleration output via 4 Core Polyolefin HFFR

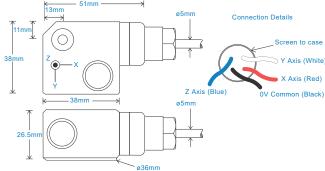
### **Key Features**

- · Output via three axes
- For use with data collector
- · Resistant to oil

#### Industries

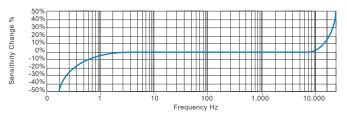
Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical





Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel unless specified Aluminium
	+3kHz for aluminium version	Sensing Element/Construction	PZT/Shear
Sensitivity	see: 'How To Order' table ±10%	Mounting Torque	8Nm
	Nominal 80Hz at 22°C per axies	Mounting Bolt Provided	see: 'How To Order' table x 30mm long
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%	Weight 235gms (nominal) - Stainless Steel	
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%		115gms (nominal) - Aluminium
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB	Maximum Cable Length	1000 metres
Isolation	Base isolated	Standard Cable Length	5 metres
Range	see: 'How To Order' table	Screened Cable Polyc	olefin HFFR - length to be specified with order
Transverse Sensitivity	Less than 5%	Mounting Threads	see: 'How To Order' table
		Mounting Stud	HS-AS226, HS-AS221 or HS-AS222
		Submersible Depth	100 metres max (10 bar)
Electrical		Environmental	
Electrical Noise	0.1mg max	Operating Temperature Range	-55 to 130°C
Current Range	0.5mA to 8mA	Sealing	IP68
Bias Voltage	10 - 12 Volts DC	Maximum Shock	5000g
Settling Time	1 second	EMC	EN61326-1:2013
Output Impedance	200 Ohms max.		
Case Isolation	>10 <sup>8</sup> Ohms at 500 Volts		

# 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 173 - Triaxial Industrial Vibra	ation Sensor		
H S 1	7 3 X	x x x x	x x x	
Extra Options (if required) AL - Aluminium Material F - Filtered	Sensitivity   010 - 10mV/g   030 - 30mV/g   050 - 50mV/g   100 - 100mV/g   250 - 250mV/g   500 - 500mV/g	Range Resonant Frequency   ±800g 20kHz (1,200kcpm)   ±250g 19kHz (1,140kcpm)   ±160g 18kHz (1,080kcpm)   ±80g 17kHz (1,020kcpm)   ±32g 16kHz (960kcpm)   ±16g 15kHz (900kcpm)	Cable/Connector 37 - 4 Core Polyolefin HFFR	Mounting Threads 02 - ¼-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male



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UK CA

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We reserve the right to alter the specification of this product without prior notice TS1047.8