# **HS-172 Premium Biaxial Accelerometer**

Two AC outputs via M12 Connector

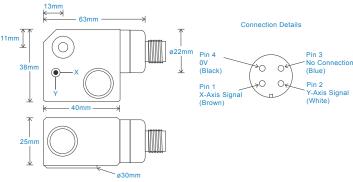
# **Key Features**

- · Output via two axies
- · 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)
Sensitivity	see: 'How To Order' table ±10%
	Nominal 80Hz at 22°C per axies
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB
Isolation	Base isolated
Range	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

Case Material
Sensing Element/Construction
Mounting Torque
Mounting Bolt Provided

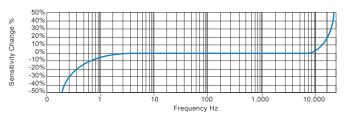
**Mechanical** 

Weight Screened Cable Assembly Mounting Threads

Stainless Steel unless specified otherwise PZT/Shear 8Nm see: 'How To Order' table x 30mm long 235gms (nominal) \*if Stainless Steel HS-AC010 - straight see: 'How To Order' table

Electrical	Environmental			
Electrical Noise	0.1mg max	Operating Temperature Range		
Current Range	0.5mA to 8mA	Sealing		
Bias Voltage	10 - 12 Volts DC	Maximum Shock		
Settling Time	1 second	EMC		
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.)

-55 to 130°C

IP67

5000g EN61326-1:2013

## How To Order

Product Prefix HS - Hansford Sensors	Product Se 172 - Biaxia	e <b>ries</b> al Industrial Vib	ration Ser	isor						
H S 1	7 2	2 X	X	X	X	X	X	X	X	
Extra Options (if required) AL - Lighter Aluminium Mate F - Filtered RT - Temperature Output PT T - Temperature Output	erial 0 03 100 03 10 23	ensitivity 10 - 10mV/g 30 - 30mV/g 50 - 50mV/g 00 - 100mV/g 50 - 250mV/g 00 - 500mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	<b>Resona</b> 20kHz 19kHz 18kHz 17kHz 16kHz 15kHz	nt Freque (1,800kg (1,680kg (1,560kg (1,440kg (1,320kg (1,200kg	:pm) :pm) :pm) :pm) :pm)	Conne 54 - M			Mounting Threads 02 - ¼-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male



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

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