HS-172 Premium Biaxial Accelerometer

Two AC outputs via M12 Connector

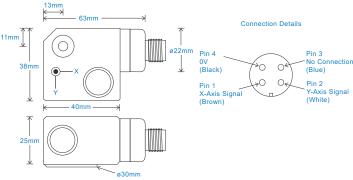
Key Features

- 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)
	+3kHz for aluminium version
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	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-AC010 - straight
Mounting Threads	see: 'How To Order' table

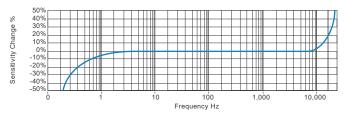
Electrical Electrical Noise 0.1mg max Current Range 0.5mA to 8mA Bias Voltage 10 - 12 Volts DC Settling Time 1 second Output Impedance 200 Ohms max. Case Isolation >10⁸ Ohms at 500 Volts

Environmental

Mechanical

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

Typical Frequency Response (at 100mV/g)

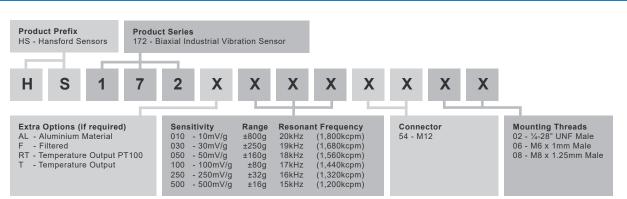


Applications

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





www.hansfordsensors.com sales@hansfordsensors.com

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We reserve the right to alter the specification of this product without prior notice TS288.8

HS-172 Premium Biaxial Accelerometer Two AC outputs via PUR cable

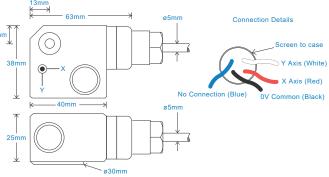
Key Features

- · Output via two axies
- For use with data collector
- Customisable features

Industries

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





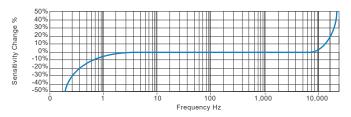
Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel unless specified Aluminium
	+3kHz for aluminium version	Sensing Element/Construction	PZT/Shear
Sensitivity	see: 'How To Order' table ±10%	Mounting Torque	8Nm
	Nominal 80Hz at 22°C 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	PUR - length to be specified with order
Transverse Sensitivity	Less than 5%	Mounting Threads	see: 'How To Order' table
		Submersible Depth	100 metres max (10 bar)
Electrical		Environmental	
Electrical Noise	0.1mg max	Operating Temperature Range	-30 to 90°C
Current Range	0.5mA to 8mA	Sealing	IP68

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

Maximum Shock

Sealing EMC

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.)



5000g

EN61326-1:2013

How To Order

Product Prefix HS - Hansford Sensors	Product Se 172 - Triaxi	eries kial Industrial V	ibration Se	nsor						
H S 1	7	2 X	X	X	X	X	X	X	X	
Extra Options (if required) AL - Aluminium Material F - Filtered	0 0 0 1 2	Sensitivity 010 - 10mV/g 030 - 30mV/g 050 - 50mV/g 100 - 100mV/g 250 - 250mV/g 500 - 500mV/g	g ±32g	Resona 20kHz 19kHz 18kHz 17kHz 16kHz 15kHz	nt Freque (1,800kc (1,680kc (1,560kc (1,440kc (1,320kc (1,200kc	:pm) :pm) :pm) :pm) :pm)	Cable/ 01 - Pl	Connecto JR	r	Mounting Threads 02 - ¼-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male



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