HS-170 Premium Accelerometer

AC acceleration output via 2 Pin MS Connector

Key Features

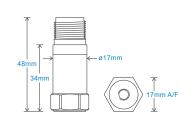
Compact design

- Premium design
- Customisable features

Industries

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





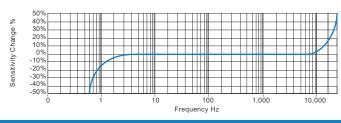
Connection Details



Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8 Nm
Frequency Response	2Hz (120cpm) to 14kHz (840kcpm) ± 5%	Weight	52gms (nominal) body only
	1.5Hz (90cpm) to 16kHz (960kcpm) ± 10%	Screened Cable Assembly	see: www.hansfordsensors.com for options
	0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB	Connector	HS-AA004 - non-booted
Isolation	Base isolated		HS-AA053 or HS-AA054 - booted
Range	see: 'How To Order' table	Mounting Threads	see: 'How To Order' table
Transverse Sensitivity	Less than 5%		

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 ⁸ 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 150°C

IP68 5000g EN61326-1:2013

How To Order

Product Prefix HS - Hansford Sensors	Product Series 70 - Compact Premium Industrial Vibration Sensor										
H S 1	7	0	X	X	X	X	X	X	Χ	X	
Extra Options (if required) F - Filtered L - 316L Stainless Steel S - 90° Side Exit Y - 5% tolerance on sensitiv	rity	030 - 3 050 - 5 100 - 1 250 - 2	vity 10mV/g 30mV/g 50mV/g 100mV/g 250mV/g 500mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resona 34kHz 32kHz 30kHz 28kHz 26kHz 24kHz	nt Freque (2,040kg (1,920kg (1,800kg (1,680kg (1,560kg (1,440kg	pm) pm) pm) pm) pm)	01 - Pl 02 - Br 07 - Si 08 - Fl	aided licon ame Retar Pin MS		Mounting Thread 01 - ½-28" UNF F 02 - ½-28" UNF M 06 - M6 x 1mm M 08 - M8 x 1.25mm 10 - M10 x 1.5mm





الخدمات الهندسية المتكاملة Integrated Engineering Services Co.

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We reserve the right to alter the specification of this product without prior notice TS049.16