

HS-422S Accelerometer

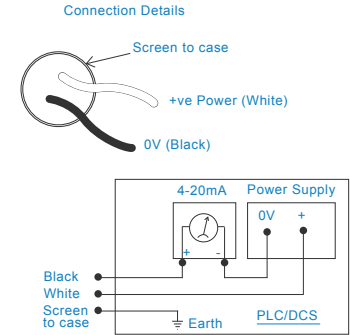
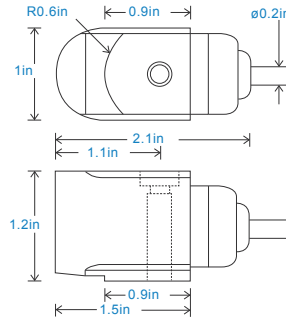
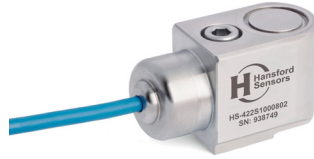
4-20mA acceleration output via Flame Retardant Cable

Key Features

- 4-20mA acceleration output
- For use with PLC/DCS systems
- Low smoke, halogen free cable

Industries

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



Technical Performance

Mounted Base Resonance	10kHz min
Acceleration Ranges	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 72°F
Frequency Response	600cpm (10Hz) to 300kcpm (5kHz) $\pm 5\%$ - ISO10816
Isolation	Base isolated
Range	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Shear
Mounting Torque	5.9ft. lbs
Mounting Bolt Provided	see: 'How To Order' table x 1.2in long
Weight	6.5 oz. (nominal)
Maximum Cable Length	3,280 ft.
Standard Cable Length	16 ft.
Shielded Cable	Flame Retardant - length to be specified with order
Mounting Threads	see: 'How To Order' table

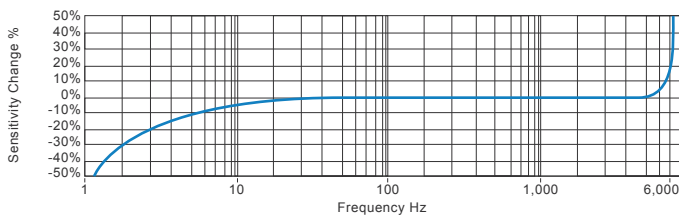
Electrical

Current Output	4-20mA DC proportional to acceleration
Supply Voltage	15-30 Volts DC (for 4-20mA)
Settling Time	1 second
Output Impedance	Loop Resistance 600 Ohms max. at 24 Volts
Case Isolation	>10 ⁸ Ohms at 500 Volts

Environmental

Operating Temperature Range	-13 to 194°F
Sealing	IP65
Maximum Shock	5000g
EMC	EN61326-1:2013

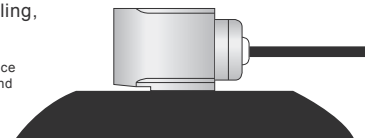
Typical Frequency Response



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					Cable Length (if integral cable)							
HS - Hansford Sensors		422 - Industrial Vibration Sensor					UXX - length specified in feet							
H	S	4	2	2	S	X	X	X	X	X	X	X	X	X
Extra Options (if required)						Acceleration Range (RMS unless specified)			Cable/Connector			Mounting Threads		
F	-	Filtered	U	-	Imperial Range	001	-	0-1g	01	-	PUR	02	-	1/4-28" UNF Male
L	-	316L Stainless Steel	UP	-	Imperial Peak Range	002	-	0-2g	02	-	Braided	06	-	M6 x 1mm Male
RT	-	Temperature Output PT100	UPP	-	Imperial Peak to Peak Range	005	-	0-5g	07	-	Silicon	08	-	M8 x 1.25mm Male
S	-	90° Side Exit				010	-	0-10g	08	-	Flame Retardant			
T	-	Temperature Output				100	-	0-100g	50	-	2 Pin MS			
									54	-	M12			



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We reserve the right to alter the specification of this product without prior notice
TS332U.3

