

# HS-473 Triaxial Accelerometer

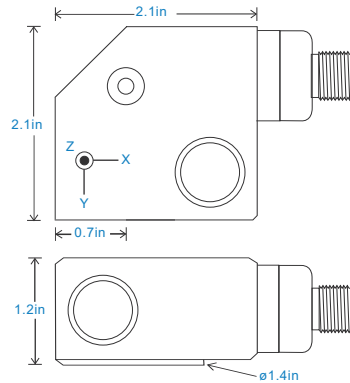
4-20mA velocity output via 8 Pin M12 Connector

## Key Features

- For use with PLC/DCS systems
- Customisable features

## Industries

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



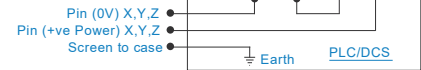
## Connection Details

- Pin 1 - White - X Power
- Pin 2 - Brown - X 0V
- Pin 3 - Green - Temp Out
- Pin 4 - Yellow - Y Power
- Pin 5 - Black - Y 0V
- Pin 6 - Purple - Temp 0V
- Pin 7 - Blue - Z Power
- Pin 8 - Red - Z 0V



## Temp Sensor

- Pin 1 - +
- Pin 3 - Temp Out
- Pin 6 - 0V



## Technical Performance

Mounted Base Resonance	17kHz (nominal)
Velocity Ranges	see: 'How To Order' table $\pm 10\%$
	Nominal 80Hz at 72°F
Frequency Response	600cpm (10Hz) to 60kcpm (1kHz) $\pm 5\%$ - ISO10816
Isolation	Base isolated
Range	50g peak
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 1.5in long
Weight	18.7 oz. (nominal) body only
Screened Cable Assembly	HS-AC731
Mounting Threads	see: 'How To Order' table

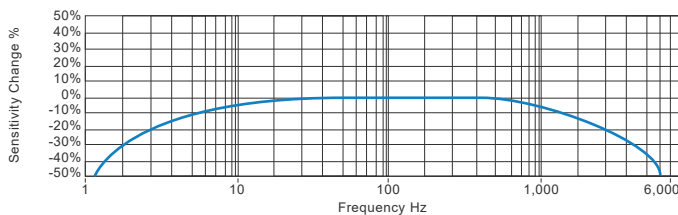
## Electrical

Current Output	4-20mA DC proportional to Velocity Range
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 <sup>8</sup> Ohms at 500 Volts

## Environmental

Operating Temperature Range	-13 to 248°F
Sealing	IP67
Maximum Shock	5000g
EMC	EN61326-1:2013

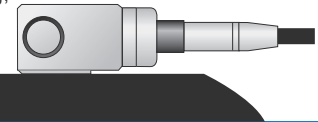
## Typical Frequency Response



## 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									
HS - Hansford Sensors		473 - Industrial Vibration Sensor									
H	S	4	7	3	X	X	X	X	X	X	X
Extra Options (if required)					Velocity Range (RMS unless specified)			Cable/Connector		Mounting Threads	
F - Filtered					012 - 1/2 IPS			66 - 8 Pin Connector		02 - 1/4-28" UNF Male	
L - 316L Stainless Steel					025 - 1 IPS					06 - M6 x 1mm Male	
RT - Temperature Output PT100					050 - 2 IPS					08 - M8 x 1.25mm Male	
T - Temperature Output					100 - 4 IPS						