

# HS-422 Accelerometer

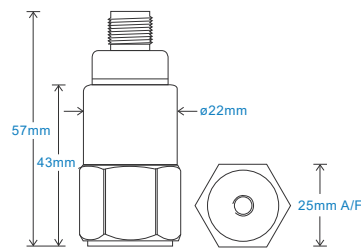
## 4-20mA acceleration output via M12 Connector

### Key Features

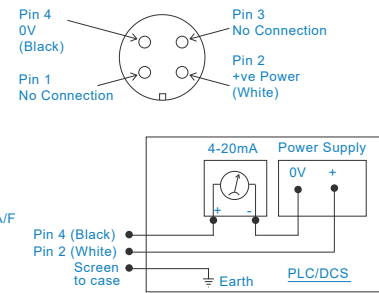
- 4-20mA acceleration output
- For use with PLC/DCS systems
- Customisable features

### Industries

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



### Connection Details



### Technical Performance

Mounted Base Resonance	10kHz min
Acceleration Ranges	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 22°C
Frequency Response	10Hz (600cpm) to 5kHz (300kcpm) $\pm 5\%$ - ISO10816
Isolation	Base isolated
Range	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

### Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	8Nm
Weight	100gms (nominal) body only
Screened Cable Assembly	HS-AC010 - straight HS-AC011 - right angle see: 'How To Order' table
Mounting Threads	

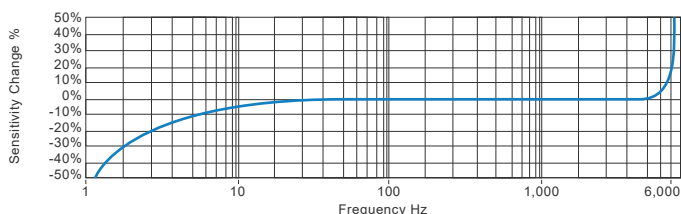
### Electrical

Current Output	4-20mA DC proportional to acceleration
Supply Voltage	15-30 Volts DC (for 4-20mA)
Settling Time	2 seconds
Output Impedance	Loop Resistance 600 Ohms max. at 24 Volts
Case Isolation	$>10^8$ Ohms at 500 Volts

### Environmental

Operating Temperature Range	-25 to 90°C
Sealing	IP67
Maximum Shock	5000g
EMC	EN61326-1:2013

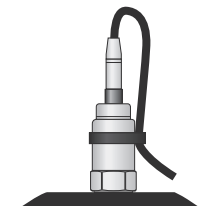
### Typical Frequency Response



### 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	422 - Industrial Vibration Sensor											
H	S	4	2	2	X	X	X	X	X	X	X	X
<div> <b>Extra Options (if required)</b>            F - Filtered            L - 316L Stainless Steel            RT - Temperature Output PT100            S - 90° Side Exit            T - Temperature Output            P - Peak Range            PP - Peak to Peak Range         </div> <div> <b>Acceleration Range (RMS unless specified)</b>            001 - 0-1g            002 - 0-2g            005 - 0-5g            010 - 0-10g            100 - 0-100g         </div> <div> <b>Cable/Connector</b>            01 - PUR            02 - Braided            07 - Silicon            08 - Flame Retardant            50 - 2 Pin MS            54 - M12         </div> <div> <b>Mounting Threads</b>            01 - 1/4-28" UNF Female            02 - 1/4-28" UNF Male            05 - Quick Fit Female            06 - M6 x 1mm Male            08 - M8 x 1.25mm Male            10 - M10 x 1.5mm Male         </div>												



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We reserve the right to alter the specification of this product without prior notice  
TS188.9

