HS-420 Accelerometer

4-20mA velocity output via M12 Connector

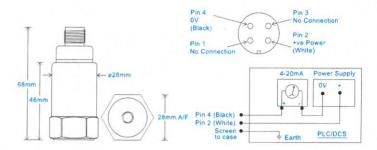
Key Features

- · For use with PLC/DCS systems
- · Customisable features

Industries

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





Connection Details

Technical Performance

Mounted Base Resonance

Velocity Ranges

Nominal 80Hz at 22°C Frequency Response $\,$ 10Hz (600cpm) to 1kHz (60kcpm) \pm 5% - ISO10816

Range

Isolation

Transverse Sensitivity

Mechanical 5kHz min Case Material see: 'How To Order' table ±10%

50g peak

Less than 5%

Sensing Element/Construction

Mounting Torque

Weight

Screened Cable Assembly

Mounting Threads

Stainless Steel PZT/Compression 8Nm 150gms (nominal) HS-AC010 - straight HS-AC011 - right angle see: 'How To Order' table

Electrical

Current Output Supply Voltage Settling Time Output Impedance Case Isolation

4-20mA DC proportional to Velocity Range 15-30 Volts DC (for 4-20mA) 2 seconds

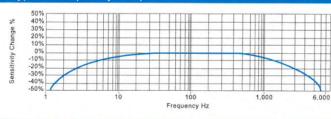
Loop Resistance 600 Ohms max. at 24 Volts >108 Ohms at 500 Volts

Environmental

Operating Temperature Range Sealing Maximum Shock EMC

-25 to 90°C IP67 5000g 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 HS - Hansford Sensors

420 - Industrial Vibration Sensor

Cable Length (if integral cable) QXX - length specified in metres

H

S

























Extra Options (if required)

- Filtered - Intrinsically Safe L - 316L Stainless Steel RT - Temperature Output PT100

- 90° Side Exit - Temperature Output

0

Velocity Range P - Peak Range PP - Peak to Peak Range (RMS unless specified) 010 - 0-10 mm/sec

020 - 0-20 mm/sec 025 - 0-25 mm/sec 050 - 0-50 mm/sec 100 - 0-100 mm/sec

Cable/Connector

02 - Braided 07 - Silicon 08 - Flame Retardant

50 - 2 Pin MS 54 - M12

Mounting Threads 01 - ¼-28" UNF Female 02 - ¼-28" UNF Male Quick Fit Female

06 - M6 x 1mm Male 08 - M8 x 1.25mm Male 10 - M10 x 1.5mm Male



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