HS-420 Accelerometer
4-20mA velocity output via Braided Cable

Key Features
• For use with PLC/DCS systems
• Customisable features

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

Technical Performance
- Mounted Base Resonance: 5kHz min
- Frequency Response: 10Hz (600cpm) to 1kHz (60kcpm) ± 5% - ISO10816
- Isolation: Base isolated
- Transverse Sensitivity: Less than 5%

Mechanical
- Case Material: Stainless Steel
- Sensing Element/Construction: PZT/Compression
- Weight: 150gms (nominal)
- Maximum Cable Length: 1000 metres
- Standard Cable Length: 5 metres
- Screened Cable: Braided - length to be specified with order

Electrical
- Current Output: 4-20mA DC proportional to Velocity Range
- Supply Voltage: 15-30 Volts DC (for 4-20mA)
- Settling Time: 2 seconds
- Output Impedance: Loop Resistance 600 Ohms max. at 24 Volts >10^4 Ohms at 500 Volts
- Case Isolation: 150gms (nominal)

Environmental
- Operating Temperature Range: -25 to 90ºC
- Sealing: IP65
- Maximum Shock: 5000g
- EMC: EN61326-1:2013

Applications
Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment

How To Order
Product Prefix: HS - MEC Sensors
Product Series: 420 - Industrial Vibration Sensor

Connectors and Cables
- 4-20mA Power Supply
- Earth

Mounting Threads
- 01 - PUR
- 02 - Braided
- 07 - Silicon
- 08 - Flame Retardant
- 50 - 2 Pin MS
- 54 - M12

Cable/Connector
- QXX - length specified in metres

Extra Options (if required)
- F - Filtered
- P - Peak Range
- I - Intrinsically Safe
- PP - Peak to Peak Range
- L - 316L Stainless Steel
- RT - Temperature Output PT100
- S - 90º Side Exit
- T - Temperature Output

Velocity 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

Sensitivity Change %
- 50%
- 40%
- 30%
- 20%
- 10%
- 0%
- -10%
- -20%
- -30%
- -40%
- -50%

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