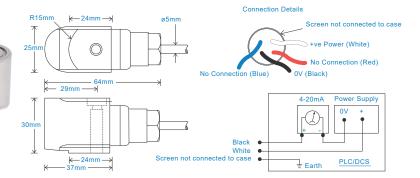
4-20mA acceleration output via PUR Cable

Key Features

- For use with PLC/DCS systems
- · Waterproof
- · Resistant to oil

Industries

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



Technical Performance

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

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Mounting Torque 8Nm Mounting Bolt Provided see: 'How To Order' table x 30mm long Weight 185gms (nominal) body only Maximum Cable Length 1000 metres Standard Cable Length 5 metres Screened Cable PUR - length to be specified with order Mounting Threads see: 'How To Order' table Submersible Depth 100 metres max. (10 bar)

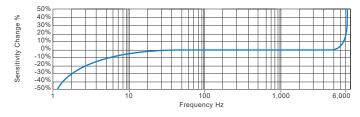
Electrical

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 >108 Ohms at 500 Volts

Environmental

Operating Temperature Range	-25 to 90°C
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

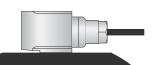
Typical Frequency Response



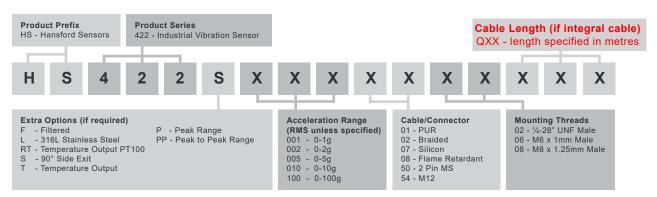
Applications

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





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4-20mA acceleration output via Braided Cable

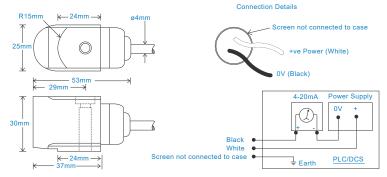
Key Features

- 4-20mA acceleration output
- For use with PLC/DCS systems
- · Side entry for easy access

Industries

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





Technical Performance

 $\begin{array}{ccc} \mbox{Mounted Base Resonance} & 10\mbox{kHz min} \\ \mbox{Acceleration Ranges} & \mbox{see: 'How To Order' table $\pm 10\%$} \\ \mbox{Nominal 80Hz at } 22\mbox{°C} \\ \mbox{Frequency Response} & 10\mbox{Hz} (600\mbox{cpm}) \mbox{ to } 5\mbox{kHz} (300\mbox{kcpm}) $\pm 5\%$} \\ \mbox{- ISO10816} \\ \mbox{Isolation} & \mbox{Base isolated} \\ \mbox{Range} & \mbox{see: 'How To Order' table} \\ \end{array}$

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Mounting Torque 8Nm Mounting Bolt Provided see: 'How To Order' table x 30mm long Weight 185gms (nominal) body only Maximum Cable Length 1000 metres Standard Cable Length Screened Cable Braided - length to be specified with order Mounting Threads see: 'How To Order' table

Electrical

Transverse Sensitivity

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 >10⁸ Ohms at 500 Volts

Environmental

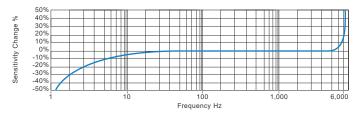
 Operating Temperature Range
 -25 to 120°C

 Sealing
 IP65

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

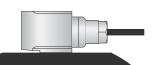
Typical Frequency Response



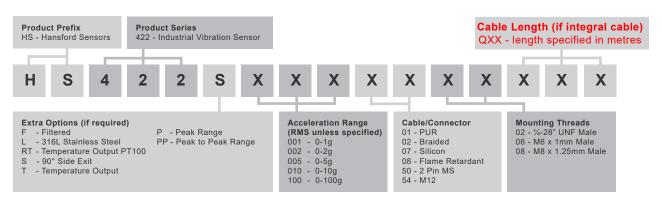
Applications

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



Less than 5%



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4-20mA acceleration output via Silicon Cable

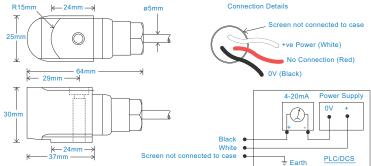
Key Features

- · For use with PLC/DCS systems
- Waterproof
- · Side entry for easy access

Industries

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





Technical Performance

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Mounting Torque 8Nm Mounting Bolt Provided see: 'How To Order' table x 30mm long Weight 185gms (nominal) body only Maximum Cable Length 1000 metres Standard Cable Length 5 metres Screened Cable Silicon - length to be specified with order Mounting Threads see: 'How To Order' table Submersible Depth 100 metres max. (10 bar)

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 >10⁸ Ohms at 500 Volts

Environmental

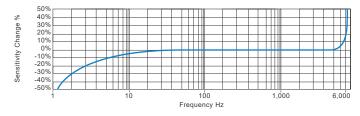
 Operating Temperature Range
 -25 to 120°C

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

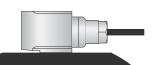
Typical Frequency Response



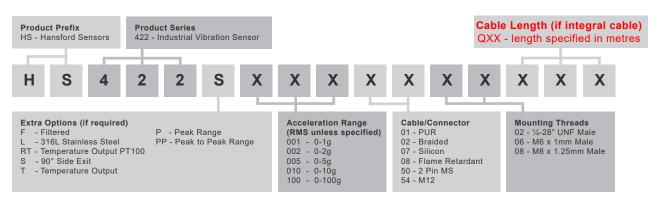
Applications

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





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4-20mA acceleration output via Flame Retardant Cable

Key Features

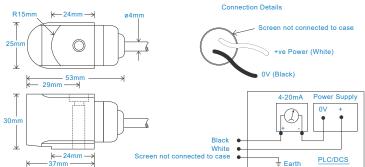
- 4-20mA acceleration output
- For use with PLC/DCS systems
- · Low smoke, halogen free cable

Industries

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



Less than 5%



Technical Performance

 $\begin{array}{ccc} \mbox{Mounted Base Resonance} & 10\mbox{kHz min} \\ \mbox{Acceleration Ranges} & \mbox{see: 'How To Order' table $\pm 10\%$} \\ \mbox{Nominal 80Hz at } 22\mbox{°C} \\ \mbox{Frequency Response} & 10\mbox{Hz} (600\mbox{cpm}) \mbox{ to } 5\mbox{kHz} (300\mbox{kcpm}) $\pm 5\%$} \\ \mbox{- ISO10816} \\ \mbox{Isolation} & \mbox{Base isolated} \\ \mbox{Range} & \mbox{see: 'How To Order' table} \\ \end{array}$

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Mounting Torque 8Nm Mounting Bolt Provided see: 'How To Order' table x 30mm long Weight 185gms (nominal) body only Maximum Cable Length 1000 metres Standard Cable Length Screened Cable Flame Retardant - length to be specified with order Mounting Threads see: 'How To Order' table

Electrical

Transverse Sensitivity

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 >108 Ohms at 500 Volts

Environmental

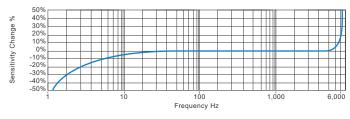
 Operating Temperature Range
 -25 to 90°C

 Sealing
 IP65

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

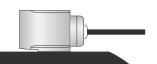
Typical Frequency Response



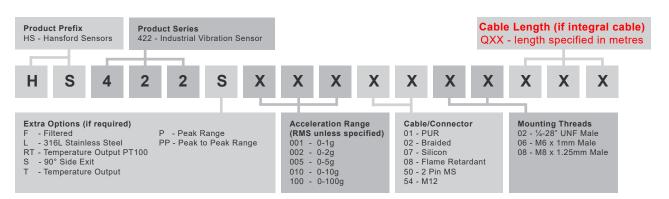
Applications

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





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4-20mA acceleration output via 2 Pin MS Connector

Key Features

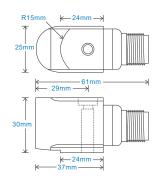
- 4-20mA acceleration output
- For use with PLC/DCS systems
- · Side entry for easy access

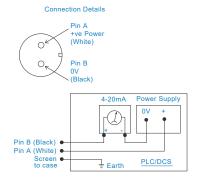
Industries

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



Less than 5%





Technical Performance

 $\begin{array}{ccc} \mbox{Mounted Base Resonance} & 10\mbox{kHz min} \\ \mbox{Acceleration Ranges} & \mbox{see: 'How To Order' table $\pm 10\%$} \\ \mbox{Nominal 80Hz at } 22\mbox{°C} \\ \mbox{Frequency Response} & 10\mbox{Hz} (600\mbox{cpm}) \mbox{ to } 5\mbox{kHz} (300\mbox{kcpm}) $\pm 5\%$} \\ \mbox{- ISO10816} \\ \mbox{Isolation} & \mbox{Base isolated} \\ \mbox{Range} & \mbox{see: 'How To Order' table} \\ \end{array}$

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Mounting Torque 8Nm Mounting Bolt Provided see: 'How To Order' table x 30mm long 185gms (nominal) body only Screened Cable Assembly see: www.hansfordsensors.com for options HS-AA004 - non-booted Connector HS-AA053 or HS-AA054 - booted Mounting Threads see: 'How To Order' table

Electrical

Transverse Sensitivity

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 >10⁸ Ohms at 500 Volts

Environmental

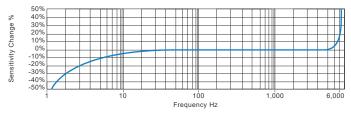
 Operating Temperature Range
 -25 to 120°C

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response



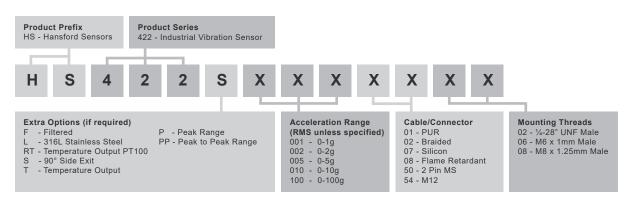
Applications

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







4-20mA acceleration output via M12 Connector

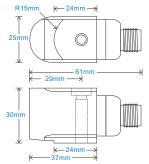
Key Features

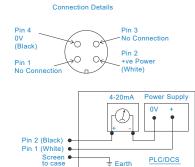
- 4-20mA acceleration output
- For use with PLC/DCS systems
- · Side entry for easy access

Industries

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







Technical Performance

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

Mechanical

Case Material Stainless Steel
Sensing Element/Construction PZT/Shear
Mounting Torque 8Nm
Mounting Bolt Provided see: 'How To Order' table x 30mm long
Weight 185gms (nominal) body only
Screened Cable Assembly HS-AC010 - straight
HS-AC011 - right angle
Mounting Threads see: 'How To Order' table

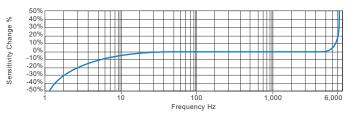
Electrical

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 >108 Ohms at 500 Volts

Environmental

Operating Temperature Range	-25 to 120°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

