# **HS-160 Accelerometer**

## AC velocity output via M12 Connector

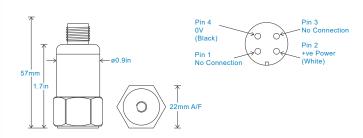
#### **Key Features**

- · For use with data collector
- · AC velocity output
- · Customizable features

#### Industries

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





#### **Technical Performance**

Mounted Base Resonance Sensitivity

Frequency Response

Isolation Range

Transverse Sensitivity

see 'How To Order' table (nominal) see: 'How To Order' table ±10% Nominal 80Hz at 72°F

180cpm (3Hz) to 270kcpm (4.5kHz) ± 10% 120cpm (2Hz) to 360kcpm (6kHz) ± 3dB

Base isolated see: 'How To Order' table Less than 5%

#### Mechanical

Case Material Sensing Element/Construction

Mounting Torque Weight

Sheilded Cable Assembly

Mounting Threads

316L Stainless Steel PZT/Compression 5.9ft. lbs 3.7 oz. (nominal) body only

HS-AC010 - straight HS-AC011 - right angle

Connection Details

see: 'How To Order' table

#### **Electrical**

**Electrical Noise** Current Range Bias Voltage Settling Time **Output Impedance** Case Isolation

0.1mg max 0.5mA to 8mA 10 - 12 Volts DC 2 seconds

200 Ohms max. >108 Ohms at 500 Volts

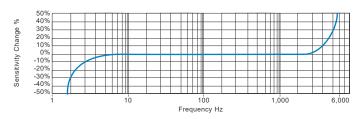
## Environmental

**Operating Temperature Range** Sealing Maximum Shock **EMC** 

-67 to 284°F IP67 5000g

EN61326-1:2013

#### Typical Frequency Response



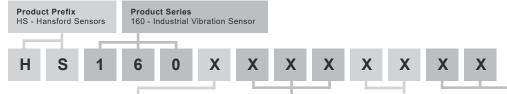
#### **Applications**

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



### Extra Options (if required)

F - Filtered RT - Temperature Output PT100

- 90° Side Exit

- Temperature Output

- 5% tolerance on sensitivity

#### Sensitivity

Range (pk) Resonant Frequency

004 - 100mV/in/s 40 IPS 1,320kcpm (22kHz) 025 - 625mV/in/s 10 IPS 1,320kcpm (22kHz)

(other sensitivities available on request)

#### Cable/Connector

01 - PUR 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

05 - Quick Fit Female 06 - M6 x 1mm Male

08 - M8 x 1.25mm Male

10 - M10 x 1.5mm Male



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