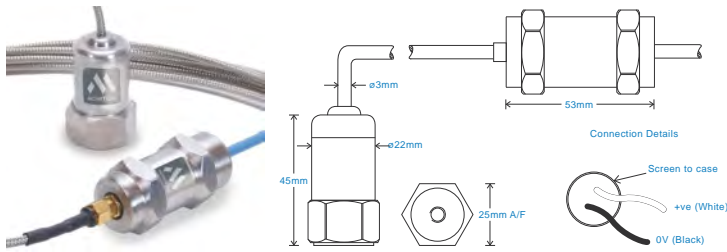


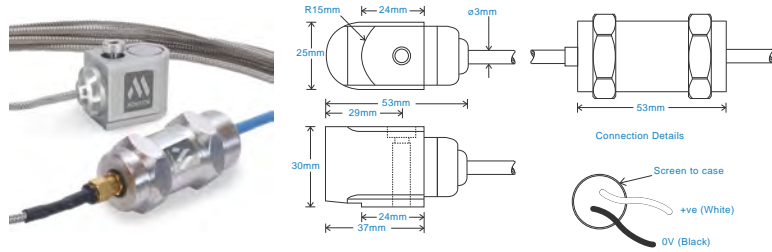
MS-105 High Temp. Accelerometer

AC Output via Low Noise Cable



Weight

125gms (nominal)



Weight

185gms (nominal)

Technical Performance

| | |
|------------------------|---|
| Mounted Base Resonance | see 'How To Order' table (nominal) |
| Sensitivity | see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 22°C |
| Frequency Response | 2Hz (120cpm) to 10kHz (600kcpm) $\pm 5\%$ 1.5Hz (90cpm) to 12kHz (720kcpm) $\pm 10\%$ 0.8Hz (48cpm) to 15kHz (900kcpm) $\pm 3\text{dB}$ |
| Isolation | Base isolated |
| Range | see: 'How To Order' table |
| Transverse Sensitivity | Less than 5% |

Electrical

| | |
|------------------|---------------------------|
| Electrical Noise | 0.1mg max |
| Current Range | 0.5mA to 8mA |
| Bias Voltage | 10 - 12 Volts DC |
| Settling Time | 2 seconds |
| Output Impedance | 200 Ohms max. |
| Case Isolation | $>10^8$ Ohms at 500 Volts |

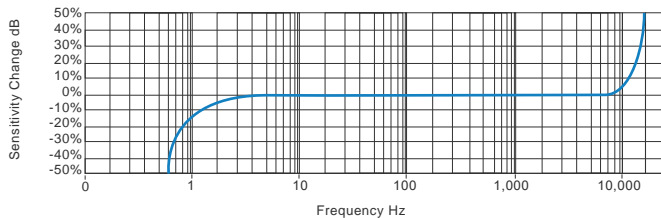
Mechanical

| | |
|------------------------------|--|
| Case Material | Stainless Steel |
| Sensing Element/Construction | PZT/Compression |
| Mounting Torque | 8Nm |
| Weight | 125gms (nominal) |
| Maximum Cable Length | 1000 metres |
| Cable | see: 'How To Order' table - (20 metres max between sensor and charge amplifier) |
| Mounting Threads | see: 'How To Order' table |

Environmental

| | |
|-----------------------------|---|
| Operating Temperature Range | -55°C to see 'How To Order' table for max |
| Sealing | IP67 |
| Maximum Shock | 5000g |
| EMC | EN61326-1:2013 |

Typical Frequency Response (at 100mV/g)



Applications

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

Industries

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

How To Order

| | | | | | | | | | | | | | | | | |
|---|--|---|---|---|--|--|---|---|---|---|---|---|---|---|---|---|
| Product Prefix MS - Monition Sensors | Product Series 105 - Industrial Vibration Sensor | Cable Length (if integral cable) QXX/XX - length before/after charge amp, specified in metres | | | | | | | | | | | | | | |
| M | S | 1 | 0 | 5 | X | X | X | X | X | X | X | X | X | X | X | X |
| Extra Options (if required) I - Intrinsically Safe RT - Temperature Output PT100 S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensitivity | | Sensitivity 010 - 10mV/g 030 - 30mV/g 050 - 50mV/g 100 - 100mV/g 250 - 250mV/g 500 - 500mV/g | Range $\pm 800\text{g}$ $\pm 250\text{g}$ $\pm 160\text{g}$ $\pm 80\text{g}$ $\pm 32\text{g}$ $\pm 16\text{g}$ | Resonant Frequency 28kHz (1,680kcpm) 26kHz (1,560kcpm) 24kHz (1,440kcpm) 22kHz (1,320kcpm) 20kHz (1,200kcpm) 18kHz (1,080kcpm) | Cable 04 - Low Noise (150°C) 05 - Low Noise (250°C) | 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 | | | | | | | | | | |

Please note: Always refer to the products full datasheet. This comprehensive product sheet cannot display every technical aspect.