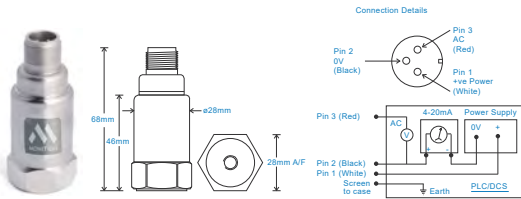


MS-421 Accelerometer

4-20mA Velocity and AC Acceleration Output

Cable and Connector Options

3 Pin MS (52)



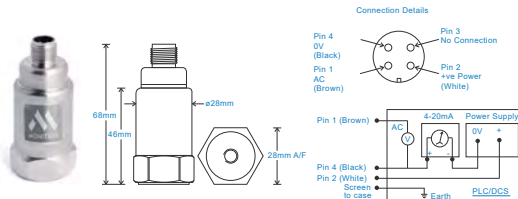
Cable/Connector

Screened Cable see: www.monition.com for options
 Connector MS-AA005 - non-booted
 MS-AA068 or MS-0069 - booted

Environmental

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

M12 Connector (54)



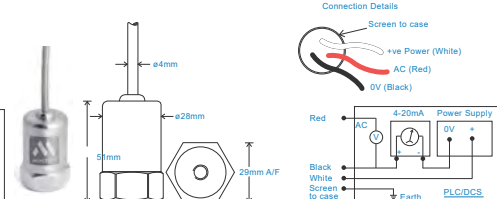
Cable/Connector

Screened Cable MS-AC010 - straight
 MS-AC011 - right angle

Environmental

Operating Temperature Range -25 to 90°C
 Sealing IP67
 Maximum Shock 5000g
 EMC EN61326-1:2013

Braided Cable (03)



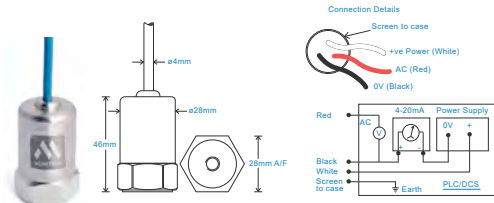
Cable/Connector

Screened Cable Braided
 Maximum cable length 1000 metres
 Standard cable length 5 metres

Environmental

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

Flame Retardant Cable (15)



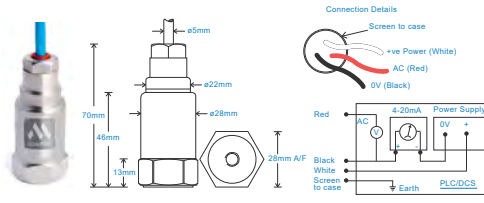
Cable/Connector

Screened Cable Flame Retardant
 Maximum cable length 1000 metres
 Standard cable length 5 metres

Environmental

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

Silicon Cable (07)



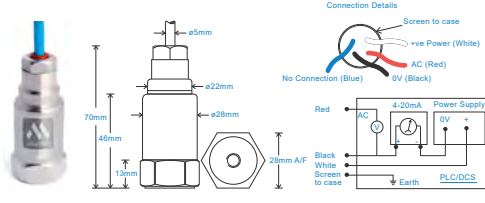
Cable/Connector

Screened Cable Silicon
 Maximum cable length 1000 metres
 Standard cable length 5 metres

Environmental

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

PUR Cable (01)



Cable/Connector

Screened Cable PUR
 Maximum cable length 1000 metres
 Standard cable length 5 metres

Environmental

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

Technical Performance

Mounted Base Resonance 5kHz min
 Sensitivity see: 'How To Order' table $\pm 10\%$
 Nominal 80Hz at 22°C
 Frequency Response 10Hz (600cpm) to 1kHz (60kcpm) $\pm 5\%$ - ISO10816
 Isolation Base isolated
 Range see: 'How to order' table
 Transverse Sensitivity Less than 5%

Mechanical

Case Material Stainless Steel
 Sensing Element/Construction PZT/Compression
 Mounting Torque 8Nm
 Weight 150gms (nominal) body only
 Mounting Threads see: 'How To Order' table
 Submersible Depth 100 metres max (10 bar)

MS-421 Accelerometer

4-20mA Velocity and AC Acceleration Output

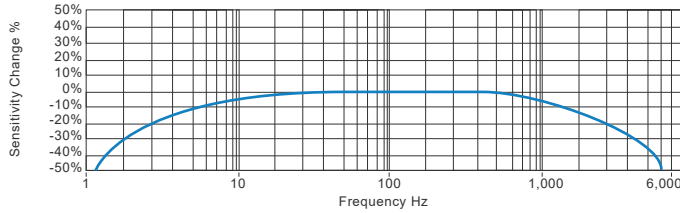
Electrical

Outputs	4-20mA DC current proportional to Range and AC acceleration
Bias Voltage	3 Volts DC (nominal)
Supply Voltage	15-30 Volts DC (for 4-20mA)
Settling Time	2 seconds
Output Impedance	Loop Resistance 600 Ohms max. at 24 Volts
Case Isolation	>10 ⁸ Ohms at 500 Volts

Industries

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

Typical Frequency Response (at 100mV/g)

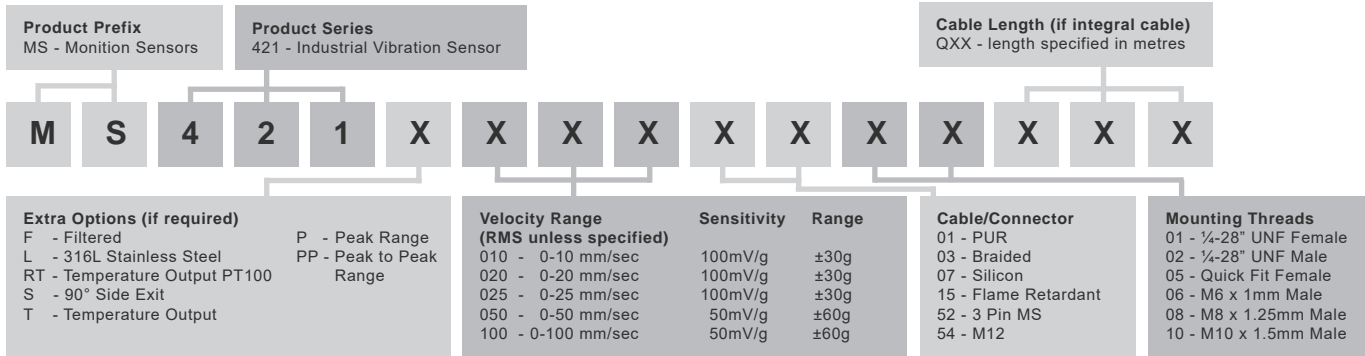


Applications

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

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



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

