

Wilcoxon Research
Vibration Product Training

Primary Markets and Applications:

Machine Tools and the
Automotive Industry

- Transfer Lines
- Grinding
- Milling
- Turning
- Broaching



Other Automotive Applications

- Casting
- Stamping
- Drawing (wire)
- Assembly

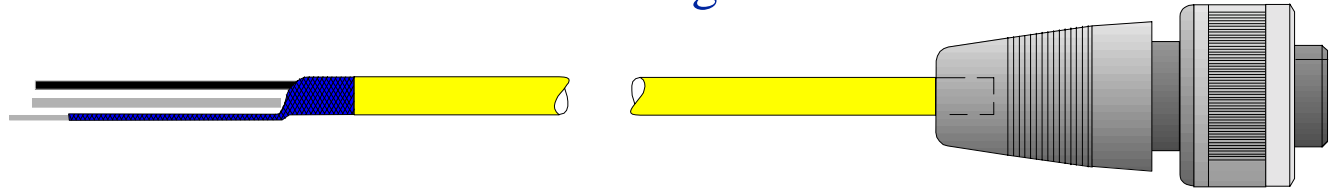
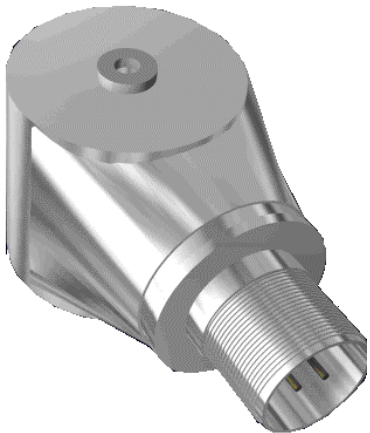


Machine Tool: Spindle Speed 10 to 300 Hz

Environment: Cutting Fluid and Cooling Fluid Spray,
Flying Chips, Electromagnetic Interference

Sensor Requirements:

- Hermetic Sealing
- Splash Proof / Water Proof Connectors
- Teflon or Armored Cabling



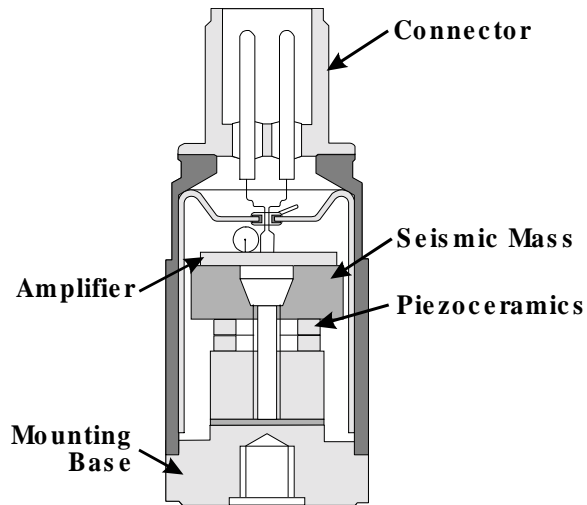
Sensor Recommendations

- 793, 797, 786A Industrial Sensors
- R6SLI, R6W Sealed Connectors
- J9T2A cables

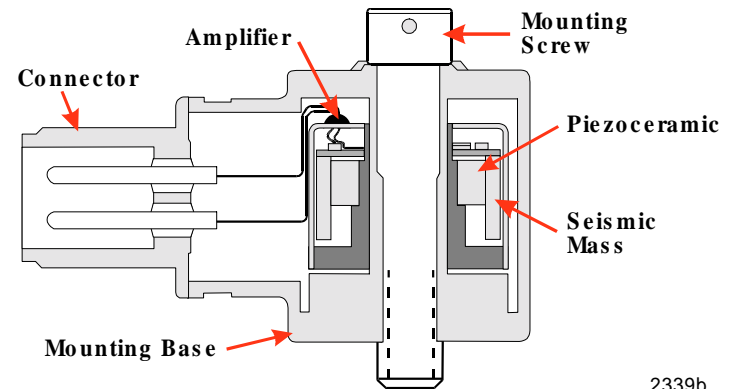
Slow Speed Machine Tool: Spindle Speed .5 to 10 Hz

Sensor Requirements:

- Very Low Noise
- Very Low Strain Sensitivity



2339a



2339b

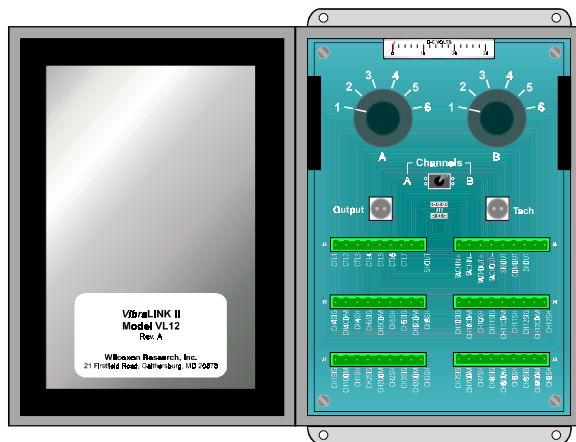
Sensor Recommendations

- 793L, 797L, 799LF Industrial Sensors
- R6SLI, R6W Sealed Connectors
- J9T2A cables

High Speed Machine Tool: Spindle Speed > 300 Hz

Sensor Requirements:

- Very High Resonance
- Low Sensitivity
- Overload Protection



Sensor Recommendations

- **732A, 732AT** Accelerometers