



MOTION SENSORS, INC.

Producing High Quality Solutions Since 1970

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Variable Reluctance Sensors - Humbucking

Humbucking sensors are special dual coil versions of the MSI Premium series and feature the same materials and construction methods. These sensors offer very high resistance to electrical interference with little or no loss in signal strength. Humbucking sensors must be used with a differential amplifier to condition and isolate the signal and eliminate unwanted electrical interference. They have the ability to cancel out most of the extraneous noise that is generated by motors, pumps, overhead lines, or other electrical devices that often create signal problems.

Product Specifications

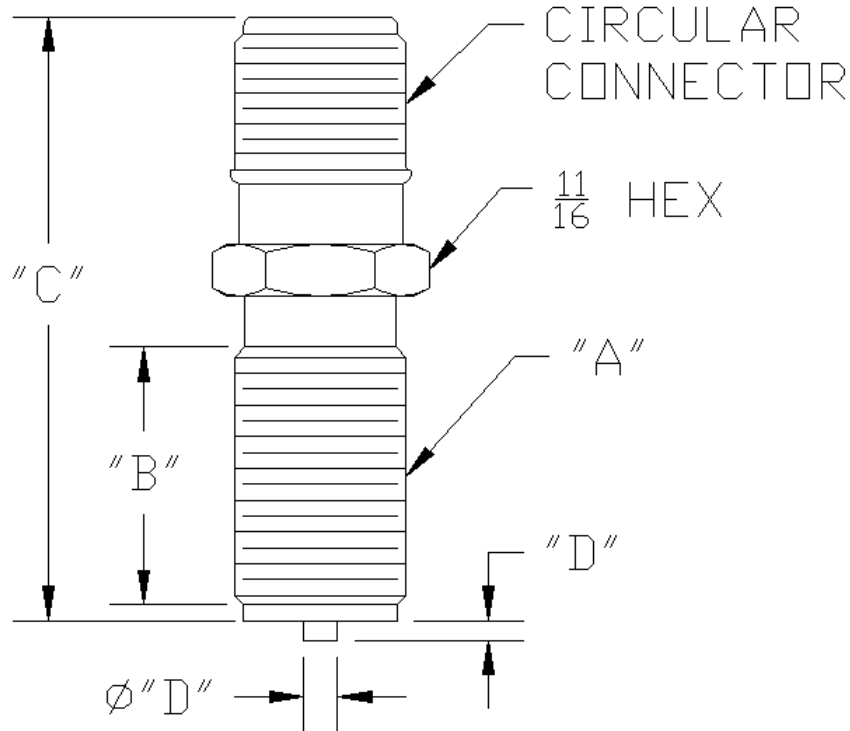
In addition to the models specified, MSI can make custom Humbucking sensors in other lengths, diameters, configurations, mounting threads (e.g., metric) as well as with different operating specifications and options like pigtail leads, NPT threads for explosion proof applications, etc. to satisfy special requirements. If you do not see a sensor that meets your needs, please contact us and we would be happy to make a product that meets your specifications.

Standard Features and Specifications

- Available in standard and low drag versions
- Variable reluctance (VR) type
- Hermetically sealed, heli-arc welded construction
- Two (2) pin gold plated glass sealed connector (mates with: MS3106-10SL-4S)
- 300 stainless steel housing (locknut included)
- Magnet that resists demagnetization
- Unique potting that compensates for temperature extremes
- Focusing tip (pole piece) which allows greater air gap with no signal loss
- Wide temperature range: -450°F to +450°F (-270°C to +232°C)
- IR leakage: 100 Mohms @ 100 VDC minimum
- High signal output
- High Shock and Vibration resistance - Impact: 15 G's (11 mS, 1/2 sine) min.; Vibration: 20 G's at 2,000 Hz min
- Unconditional one (1) year warranty if used within specifications



Dimension Key



Standard Humbucking Models

Model Number	Mounting Thread (A)	Thread Length (B)	Overall Length (C)	Tip (L/D) (D)	R (Ohms)	I (Henry)	Gauss Strength
PC24-128G (Std. Drag)	11/16x24	1.125	3.370	.070/.125	3600 (each winding 1800)	2.25	850
PC24-85G (Low Drag)	11/16x24	1.135	3.363	.070/.125	2800 (each winding 1400)	3	350

Notes:

1. Dimensions in inches
2. Specifications +/- 10%
3. Mounting threads UNF-2A