

INDUSTRIES & APPLICATIONS

Industries served:

- Automotive
- Aviation
- Aerospace
- Agriculture
- Biotechnology
- Construction
- Electric power Generation
- Exercise Equipment
- Locomotive
- Military
- Off-highway

Common applications:

- Automation control
- Angle position sensing
- Dynamometer
- Engine speed & control
- Exercise equipment
- Flow-meter measurement
- Gen-sets
- Shaft speed
- Transmission speed & timing
- Turbines
- Valve position switch
- Valve actuators

INNOVATIVE CUSTOM DESIGN & MANUFACTURING

Sensoronix, Inc. is a custom design and manufacturer of magnetic sensors used for precise measurement of speed, direction, position, and proximity.

Sensoronix, Inc. is dedicated to providing innovative design and high quality manufacturing by utilizing professionals with over 20 years of success and experience in magnetic sensor industry.

All Sensoronix products are custom designed to meet your exact specification requirements. Our team of experts are available to assist you with any questions regarding your current or future projects involving magnetic sensor technology.



WWW.SENSORONIX.COM



Sensing the...

Speed

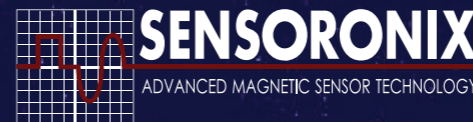
Direction

Position

of Technology...

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Product Categories

Speed Sensors

Active Digital Output

Hall Effect Zero Speed Sensor (HS)

Detects the speed of ferrous target wheel even at zero speed regardless of alignment.



Hall Effect Speed and Direction Sensor (HD)

Produces one signal for speed and the second signal (DC level) for detection of direction.



Hall Effect Quadrature Sensor (HQ)

Produces two signals (square wave) 90 degree out of phase for speed and direction.



Hall Effect Speed Limit Switch Sensor (HW)

Designed to produce a switch (DC level) output at a specified speed.



VR Speed Sensor w/ Digital Output (VD)

Detects the speed of ferrous target wheel for a large airgap requirement.



Active Linear Output

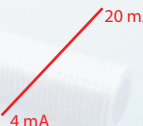
Hall Effect Speed Sensor w/ DC Voltage Output (HA)

Converts frequency to a linear voltage at a specified speed range.



Hall Effect Speed Sensor w/ 4-20 mA Output (HA)

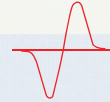
Converts frequency to a linear 4-20 mA output at a specified speed range.



Passive Analog Output

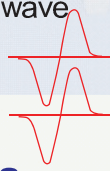
Variable Reluctance Speed Sensor (VR)

Generates a sine wave signal for the speed of ferrous target wheel without an input voltage.



Variable Reluctance Speed Sensor w/ Dual Output (VC)

Generates two complimentary sine wave signals to detect speed without an input voltage.



Position Sensors

Active Digital Output

Hall Effect Proximity Switch Sensor (HP)

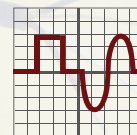
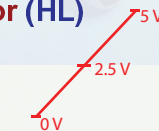
Produces a switch output (DC level) due to presence and absence of magnet as a target.



Active Linear Output

Hall Effect Displacement Sensor (HL)

Produces a linear output voltage due to displacement of magnet as a target.



SENSORONIX
ADVANCED MAGNETIC SENSOR TECHNOLOGY

Electrical Specifications Range

1. Active Digital Output Sensors: (HE)

Input voltage: +4.5 to 24 VDC or 5.5 to 36 VDC

Output current (I sink): 20 to 50mA Max

Output Signal: Digital (square Wave) 0 to input voltage or 0 to 5V.

Target: Ferrous material single tooth or slot up to 48 pitch Gear tooth or magnet as a target.

Airgap: .0050" to .120" (.127mm to 3.046mm)

Frequency: 0 to 15KHZ (for speed sensors)

Operating temperature range:

-40° F to 302° F (-40°C to 150°C)

2. Active Linear Output Displacement Sensors: (HE)

Input voltage: 4.5 to 6 VDC or 5.5 to 36VDC.

Output voltage at 0 Gauss: 2.5V TYP

Linearity: ± 3% full scale

Sensitivity: 1.30 mV/G

Bandwidth: 23KHZ TYP

Target: permanent magnet.

Airgap: .005" to 0.750" (.127mm to 19.036mm)

Operating temperature range:

-40°F to 255°F (-40°C to 125°C)

3. Passive Analog Output Speed Sensors: (VR)

Resistance: 40 to 2000 Ohms

Target: Ferrous material, single tooth to 32 Pitch Gear

Airgap: 0.005" to 0.150" (.127mm to 3.808mm)

Speed range: 30 to 1000 Inch/sec

Output voltage (Vp-p): .100 to 200 Vp-p

Operating temperature range:

-40 °F to 302 °F (-40°C to 150°C)

Mechanical Specifications Range

Housing Type:

1. Smooth
2. Threaded with optional wrench flat head
3. Hex head
4. Knurled head
5. Connector head
6. Other (per customer's specification)

Standard Housing Size:

INCH	METRIC
1/4-28, 1/4-40	M12 x 1.25
5/16-24	M16 x 1.5
3/8-24	M18 x 1.5
1/2-20, 1/2-32	M18 x 1.0
5/8-18	M20 x 1.5
3/4-16, 3/4-20	M22 x 1.5
Other (per customer's specification)	

Housing Material:

1. 300 series stainless steel
2. Aluminum with or without plating
3. Nickel plated, Brass
4. Rugged, Thermoplastic
5. Other (per customer's specification)

Terminal:

1. Connector
Options: MS3106 series, Amphenol, Deutsch
2. Lead wire
Options: 16 to 28 AWG with PVC, Teflon insulations, and Military types
3. Cable
Options: 16 to 28 AWG with PVC jacket, Teflon Jacket and insulation, and Military types
4. Lead wire+ Connector
Options: 16 To 26 AWG with AMP, Deutsch, Packard connector
5. Cable + Connector
Options: 16 To 28 AWG with AMP, Deutsch, Packard connector