

MSC sensors are found in a diversity of industrial, commercial, military, and research applications

Agriculture/Construction

- Diesel Engines
- Engine Powered Compressors
- Engine Powered Generators
- Hydraulic Motors

Aerospace

- Steering Mirror Actuator
- Valve Actuator

Automotive

- Anti-Lock Brakes
- Vehicle Speed Sensor
- Cruise Control (after market)
- Diesel Engines
- Dynamometers
- EFI (retro-fit)
- Electronic Speedometer
- Electromotive Valve Actuator
- Engine Governor Actuator
- Engine Speed
- Engine Mgmt.
- Eon Clutch (Diesel)
- Flywheel Speed
- Ignition Timing Traction Control

Aviation

- Brake Controls
- Jet Engines
- Fuel Pump Monitor
- APU
- Turbochargers

Graphic Arts

- Printing Presses
- Digital Printers

Electric Power Generation

- Engine Powered Generators
- Power Generation Turbines
- Turbine Flow Meters
- Wind Powered Generators

Industrial

- Engine Powered Compressors
- Engine Powered Generators
- Hydraulic Motors

Marine

- Engine Speed
- Docking Clutch Control
- Throttle Control
- Transmission

Military

- Bradley Fighting Machine
- F8 Crusader
- A/XV7 Amphibious Assault Vehicle
- Unmanned Aerial Vehicles

Motorsports

- CART Indy Cars
- Drag Racing
- Street Rods & Customs
- SCCA
- Off-Road
- Pro-Rally

Railroad

- Engine Controls
- Turbines
- Valve Position

Our Mission Statement

Magnetic Sensors Corporation is committed to meeting customer requirements and increasing customer satisfaction through continual improvement of its products, services, and the quality management system.



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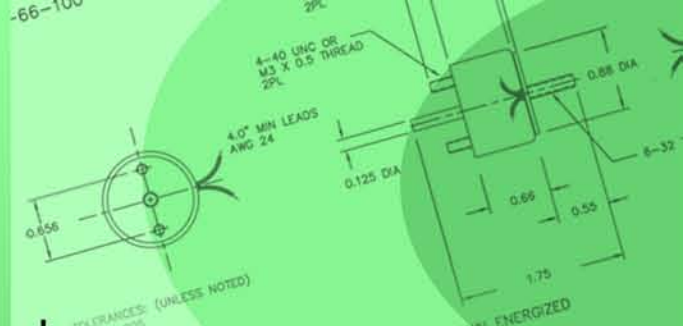
www.magsensors.com



MAGNETIC SENSORS CORPORATION



Measuring the Rate of Progress Since 1983



Incorporated in 1983 to manufacture simple variable reluctance sensors for the computer peripheral marketplace. MSC has expanded its line of variable reluctance sensors and added Hall effect sensors, quadrature, temperature, vehicle speed, and rotary position sensors.

MSC sensing products are available in a broad selection of shapes and sizes and the company is consistently working to broaden the line.

AS9100 certified. CSA and ATEX certified as explosion and dust ignition proof for use in hazardous applications.

Production Flexibility

MSC operations procedures accommodate most run sizes while maintaining consistent quality control.

- Large quantity production runs
- Short runs and special orders
- Prototypes

Custom Sensing Solutions

On-site engineering and design staff are ready to assist with the execution of your application—specific requirements.

Some typical requests have been: very high cycle rate, extreme temperatures, wide angle sensing, remote sensing, vehicle speed sensing, and flexible probe.

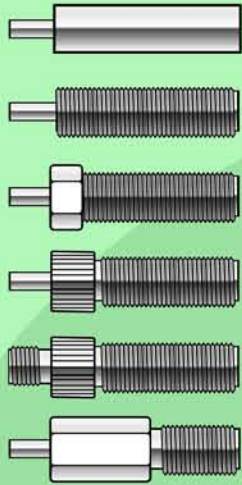
Custom Coil Assemblies

MSC has the capacity to produce coils and solenoids in sizes ranging from large, 16 gauge windings, to tiny 56 gauge. Some coils are so small they are difficult to see with the naked eye.

Flat wire and square wire technologies allow more powerful, more compact coils.

Design, engineering, tooling and manufacturing are all performed in-house by our staff who are ready to help develop a solution for your application.

Standard Configurations



Most MSC sensors are available in all industry standard configurations.

- Tubular Case
- All Threaded Case
- Thread, Hex Head
- Thread, Knurl Head
- MS Connector
- Threaded, Hex Body

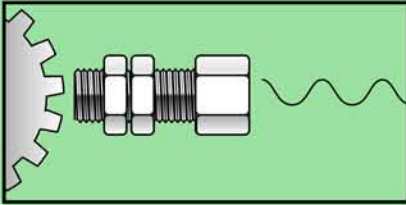
Also: Flange-type bolt-on, machined, cast, and molded housings.

Terminations:

Twisted Wire, Cable, Shielded Cable, Crimped Terminals, Connectors.

Passive Speed Sensors

Analog Variable Reluctance (VR) Geartooth Sensors
Passive Sensors generate a sine wave output with no external power source. Voltage is determined by target speed and air gap.



- No external power supply required
- High reliability. Long life
- Simple 2-wire installation
- No moving parts or contacts
- Operating Temp -40°C to +185°C
- Wide variety of styles and sizes
- Pole piece from .040" to 1.25"
- Spade, conical, round or blind pole piece available.

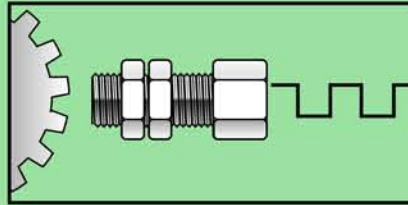
Sizes Available:

Tubular - .150" dia. to .500"
UNF Thread — 1/4-28 to 3/4-16
Metric Thread — M12x1.25 to M22x1.5

Active Speed Sensors

Hall Effect (HE) Geartooth Sensors

Measures target speed from zero to 20,000 pulses per second. Output frequency is proportional to target speed.



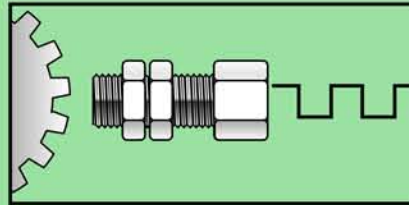
- True zero speed sensing
- Digital output
- No moving parts or contacts
- Supply voltage from 4.5 - 24 Vdc
- Operating temp -40°C to +150°C
- Wide size selection
- Wide variety of styles
- Rugged design
- Configurable for almost any environment

Sizes Available

Tubular - .250" dia. to .500"
UNF Thread - 1/4-28 to 3/4-16
Metric Thread - M12x1.25 to M22x1.5

Digital Variable Reluctance (DVR) Geartooth Sensors

Internal circuitry converts analog output to digital pulses. 30 inches per second (IPS) to 1500 IPS, repetition rate (frequency) to 20,000 Hz.



- Near zero speed sensing
- Digital output
- Reliable VR technology
- Supply voltage from 4.5 - 24 Vdc
- Operating temp -40°C to +150°C

Sizes Available

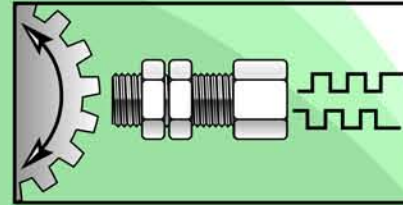
Tubular - .250 to .750
UNF Thread - 1/4-28 to 3/4-16
Metric Thread — M12x1.25 to M22x1.5

Speed & Direction Sensors

True Quadrature I-Hall Effect (HE)

Speed and Direction Sensors

Two 90° out-of-phase outputs measure speed and the direction of travel of gear teeth or other ferrous targets.



- Direction of travel sensing
- True zero speed sensing
- Digital output
- Supply voltage from 4.5 Vdc-24 Vdc
- Operating temp -40°C to +150°C
- No moving parts or contacts
- Easy orientation

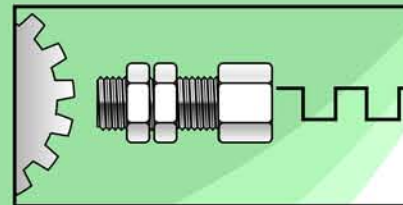
Sizes Available

Tubular - .500", .625", .750"
UNF Thread - 1/2-20 to 3/4-16
Metric — M12x1.25 to M22x1.5

Proximity Switches

Zero Speed, Non-contact HE Proximity Switch

Measures rotary or linear motion. Registers the transition of target magnet past the face of the sensor. Frequency to 100,000 Hz.



- Digital output
- Supply voltage from 4.5 - 24 Vdc
- Operating temp -40°C to +150°C
- Normally open mode standard
- Designed for easy orientation

Sizes Available

Tubular — .500" to .750"
UNF Thread — 1/2-20 to 3/4-16
Metric — M12x1.25 to M22x1.5

Miniature Sensors

MSC offers full-function gear tooth sensors as small as 1/8" dia. for limited space applications. Variable Reluctance, Digital Variable Reluctance, and Hall effect true-zero speed sensing. Tubular and threaded styles with choice of terminations.

Explosion Proof Sensors

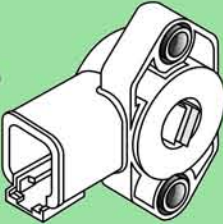
CSA certified safe for hazardous environments, such as methane gas, flammable liquids, airborne dust or other explosive conditions. ATEX certification in process.



Rotary Position Sensor

Reliable angle sensor for many applications: throttle position, vane angle, arm position, etc. Oil and water resistant housing protect circuitry, even in hostile marine environment. Units can be made to your specifications.

- Precise angle sensing to 75°
- Technology capable of 150° sweep
- Digital output
- Operating temp -40°C to +85°C
- Accuracy to +1%. Standard +3%



Vehicle Speed Sensors

Heavy-duty road speed sensors for electronic speedometers, cruise control, or electronic fuel injection conversions. Connects to transmissions cable drive output. Hall effect or Reed Relay.



Other Sensing Products

- Digital Switches
- Proximity Sensors
- Position Sensors
- Position Switches
- Vane Sensors
- Temperature
- Dual Output
- Home Positioning