



American Sensors Corp.  
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## **ACCURATE AND RELIABLE NON-CONTACT SENSORS USED FOR HOT OR COLD METAL**

- **Tracking**
- **Edge Position**
- **Distance**
- **Length**
- **Width**

- **Thickness**
- **Speed**
- **Level**
- **Temperature**
- **Vision**

American Sensors Corp. (ASC), founded in 1993 in Pittsburgh, PA, manufactures high performance sensors and systems for the metals industry. Our technology is used in mills all over the world for hundreds of applications to optimize automatic control, increase productivity, improve quality, and reduce maintenance. ASC and our partners supply the site expertise, applications experience, sensor hardware and software, commissioning service and after-sale support to our valued customers. We maintain our own first-class facilities for production, calibration, quality assurance and process simulation. Contact us to schedule a visit by our unique ASC Demo Truck and its array of working sensor technology.

**Superior Sensor Design: Advanced digital electronics and wireless communication capability for high accuracy, reliability, flexibility and ease of use.**

- Mill-rugged cast aluminum NEMA-4, NEMA-12 enclosure
- 11.75"W x 12.75"H x 4.9"D
- Positioning laser for easy commissioning
- Quick-connection electrical plug
- High temperature braided steel power and signal cable
- Air purge fitting for lens protection
- Adjustable mounting foot
- Integrated mounting assembly easily separates from Sensor Module for service without disturbing the sensor alignment





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## American Sensors Product Line Summary

<b><u>SENSORS</u></b>	<b><u>APPLICATIONS</u></b>	<b><u>FEATURES and BENEFITS</u></b>
<b>HMD Series</b> Infrared Hot Metal Detectors	Tracking, Positioning, Cut-to-Length, Pinhole Detection	Automatic Gain Control overcomes errors caused by process variations, detection from 120°C (248°F), no steam interference, higher sensitivity allows mounting further from process heat, 2 mS speed of response, laser positioning, analog and serial outputs, alarms, wireless communication for easy installation and operation, fiber optic cables available.
<b>IS Series</b> Infrared Positioning Sensors	Loop Control, Measuring Position, Edge Positioning, Centering, Width, Speed Measurements	Measures through flames in the reheat furnace, accuracy from ± 1 mm, read from up to 1000 m away, interfering object rejection, analog & serial outputs, Class I safe operating laser.
<b>LM Series</b> Laser Meters	Dimensional Reading, Distance Reading, Hot or Cold Target Positioning	0 to 3000 °C (32 – 5430 °F), one-, two-color or multiple wavelength sensor, ± 5 °C (10 °F) absolute accuracy, fiber optic cables available for remote electronics installation.
<b>PM Series</b> Pyrometers	Temperature, Emissivity monitoring, Slag Detection, Handheld Pyrometers	Measures accurately (±10 mm error) through steam, dust, and smoke, uses remote electronics, low-power output (~0.3 mW) safe for personnel, optional air-cooled antenna and customized swing arm assemblies available.
<b>MWS Series</b> Microwave Level	Molten Metal Level, Blast Furnace Burden, EAF, Torpedo Car, Ladle, Tundish, and Mold Level.	Positioned at the strip side profile to reduce process heat stress, measures through steam, dust, and smoke.
<b>FMCW Series</b> Velocimeters	Mill Stand Entry, Exit Strip Velocity, Mass Flow Balance	Range of 0 to 240 m/s, 0.05% of reading accuracy, standoff distance up to 2 meters, zero-speed capability (-100 to 140 m/S range).
<b>LM-LSV Series</b> Laser Velocimeters	Speed and Length Measurement, Mass Flow	Through-beam, retro-reflective, sensitivity selection, 10 mS speed of response.
<b>OB/CW Series</b> Optical Barriers	Tracking, Positioning, Hot & Cold Detection	Up to 8" field of detection, no power supply needed, manual or automatic reset action available.
<b>SI Series</b> Magnetic Switches	Non-contact limit switch for cranes, rail-mounted vehicles, etc.	5 microns absolute accuracy, non-contact technologies, no radiation source for safety.
Capacitive & X-Ray Gages	Strip Thickness, Coating Thickness Measurements	Mill-rugged, wireless communication, and focusable 'Smart' cameras.
Optical Vision Cameras	Non-contact process monitoring	Protects sensor technology from harsh processes, allows easy installation and operation, provides superior maintenance tools, and reduces cost of ownership.
Process Accessories	Kevlar Sensor Jacket, Wireless Communication Modules, Handheld Keypad, Radiant Bars	

**TURNKEY SYSTEMS-** ASC custom integrates systems using one or more sensors, operator interface, system hardware, and software to solve difficult application problems such as 3-D profiles, analysis with interactive parameters, refractory wear, and many others. Please contact us to discuss your requirements. Thank you.