



INDUSTRIAL SENSORS & MEASUREMENT SYSTEMS



MODULOC Control Systems represents the whole solution for detection and measurement for mill, process automation, and for material handling applications.

Since 1981 we have been supplying optical sensors, detectors and measurement systems to the Steel, Aluminum, Metal, Automotive and Material Handling Industries.

Our success is attributed to our continual policy of providing the latest in technology to meet the changing requirements of Industry.

Sensors: Engineered for Heavy Industry

- **PF1000 Pathfinder Digital Hot Metal Detector (HMD) Scanner** - Latest technology for precise high speed monitoring of hot product regardless of size, profile or temperature. Not effected by changes in background IR as incorporates automatic background analysis. Ideal for difficult and critical detection needs such as furnace exit, run-out tables and cut to length.
- **Series 85100 Digital Hot Metal Detector** - Self-Contained "All-in-One" design, programmable IR trip levels and response times to ensure precise operation in all areas. Featuring multiple outputs and a unique LED Bar display of IR Input Signal.
- **Series 95100 Hot Metal Detector** - Remote design, programmable IR trip levels and response times to ensure precise operation in all areas. Featuring multiple outputs and a unique LED Bar Display of IR Input Signal. Utilizing high temperature rated fiber optic cables & interchangeable remote optic lenses allows for detection in high ambient areas and at close proximity.
- **DTF6000 Trailfinder Digital Infrared Loop Scanner** - Digital scanner with background suppression for continuous precise monitoring of the relative position of hot bar and rod down to 400°C.
- **Series 310 Industrial Metal Detector** - Ideal for detecting metal contaminate on Bulk Conveyor Belts and for detection of individual bars, tubes and sections across wide roller tables at extended range.
- **Series 2000 Extended Range Inductive Proximity Sensor** - Specifically for installations in the harshest of industrial environments with ranges from 20mm to 200mm. Available in a various shapes and sizes to fit a variety of applications.
- **Series 4000 Mill Duty Photo-Switch** - Ideal for monitoring Hot or Cold Product. Remote design utilizing high temperature rated fiber optic leads & remote stainless steel optic allows for detection in high ambient areas and at close proximity.
- **Series 5000 Digital Temperature Sensor** - Engineered to meet the harshest environments of the steel and metals industry. These high performance temperature sensor are available in three models with wide temperature ranges to meet the most demanding requirements.
- **Model 8207 Weld Hole Detector** - Background suppressed robust sensor for detection of weld holes in passing metal strip.
- **VLM250** - Velocity and Length Sensor provides economic precise measurement without contact. Regardless of the material nature & surface, it determines length & speed for interfacing with automation systems.



Series 2000 Proximity Sensor



Series 4000 Photo-Switch



Series 5000 Temperature Sensor



VLM250 Velocity and Length Sensor

MODULOC Technology - The Total Sensor Solution

MODULOC Control Systems Ltd.

Wheatthamstead, Hertfordshire, AL4 8SB United Kingdom
 Phone: +44 (0)845 873 6501 FAX: +44 (0)158 283 1980
 E-Mail: sales@moduloc-intl.com Website: www.moduloc-intl.com

MODULOC Control Systems, Inc.

500 Garden City Drive. - Suite 2B
 Monroeville, PA 15146 USA
 Phone: 412-824-1260 FAX: 412-824-8890
 E-Mail: sales@moduloc-usa.com Website: www.moduloc-usa.com

Measurement Systems: Laser Technology

- **Laser Measurement Systems** for laser measurement of length, width, thickness or positioning of hot or cold product as well as automated positioning of cranes, mobile equipment and machinery.
- **ELDP & MDHD Laser Distance Meters** - Advanced Class I Laser Technology providing precise distance measurement. Operates via a unique pulsed time-of-flight (TOF) measurement technique and measure distances over working ranges of up to 1200M (3900FT) according to reflection surface. Can be used with a reflector or directly off of product. Four models available including High temperature model for measurement off of red hot metal up to 1400°C (2500°F).
- **Laser Distance Meter Secondary Environmental Enclosures** - Multiple designs available for additional protection for indoor, outdoor, crane mounted and elevated temperature applications.
- **LT2000 Laser Distance Meters** - Low cost visible red Class II laser for highly accurate distance measurement. Ranges up to 150M (490FT) according to reflection surface. Can be used directly off of product, ideal for product width and coil diameter determination. High temperature model that can measure off of red hot metal up to 1260°C (2300°F). Various Enclosure Options are available including, IP65, IP66, NEMA4X, Explosion Proof, Robust IP66 with Air Purge/Cooling and Robust IP66 Water Cooled with Air Purge. Some models are now available with Ethernet and ProfiBus Interface.
- **BR22 Laser Interface** - Powerful CPU provides a localized LCD display of distance measurement and programming of the Laser Distance Meters operational parameters via keypad operation. Several models available, for operation of 1 or 2 lasers, providing product length, thickness or width measurement, and for positioning control.
- **LDCP-4000 Crane LDM Interface Display** - Powerful CPU engineered to provide convenient operation and communication between the ELDP family of Digital Laser Distance Meters and other digital inputs on an overhead crane and the crane operator as well as a host computer. Displays to the operator the position of up to 3 crane motions.
- **LD-6001 Laser Length/Width Gauge** - Operating off both cold or hot product, even inside the furnace, this Gauge is well suited for determining the size and position of steel product such as slabs, blooms or billet in the furnace area & other difficult areas in the Rolling Mill. Displays measured distances from each LDM and calculates the widths, lengths or centerline deviations.
- **MLB, MLC, MLM, & MLS Laser Triangulation Meters** - precise measurement of product thickness or diameter. 25 models available with measuring ranges of 70mm to 4M, with resolutions of 0.001mm to 0.5mm. Two High Temperature models also available for use with red hot metal up to 1200°C (2190°F) and molten metal up to 1800°C (3270°F)
- **MLS02 Laser / Profile Scanner** - optical non-contact precision measurement in two dimensions providing profile-measurement in any kind of industrial application. Four models available with measuring ranges of 450 up to 2400mm, with resolutions of .01 to 0.3 mm. A High Temperature model is also available for use with red hot metal up to 1200°C (2190°F).
- **MDCV83200-2H Laser Thickness Gauge** - utilizes Laser Triangulation Meters within the C-Frame to determine the thickness of the plate. Exceptional high accuracy of thickness measurement is achieved by automatically calibrating off a Certified Master sample. Distortions are indentified in the c-frame due to ambient changes and radiant heat and are compensated for in the thickness output.
- **MDCLS Series** - Digital Camera Level Sensors are compact units with integrated optics and signal processor for precise measurement of the molten liquid level in Launderers, Head Boxes, and Casters in the Aluminum and Non-Ferrous industry. Housed for protection in a secondary robust stainless enclosure to give total protection as well as being provided with an Air Inlet venting as Air Purge out of a protective nozzle.
- **VR504 Barrier Lasers** - Powerful and safe Class I Laser with 500M (1640FT) range for penetrating the heaviest steam and furnace flames.
- **LT200M Retro-Reflect Lasers** - Powerful visible red Class II Laser with a 20M (65FT) range off of a reflector, enabling precise detection of product in difficult areas. Fast response time less than 1 msec. Robust IP66 Enclosure with Air Purge/Cooling and Optional Water Cooling with Air Purge. Several reflectors designs are available with temperature ratings from 90°C (190°F) up to 500°C (930°F).



MDHD Laser Distance Meters



MDHD Laser Secondary Enclosures



LT2000-ST Distance Meters



MLS Laser Triangulation Meter



MDCV83200-2H Laser Thickness Gauge



MDCLS Series Digital Camera Level Sensors



VR504 Barrier Laser

MODULOC Technology - The Total Sensor Solution

MODULOC
Control Systems

Your Local Sales Representative:



We reserve the right to alter specifications without prior notice. Specifications without tolerances are typical values.

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