



MDHD100 LASER DISTANCE METER



- **Advanced totally safe Class I Laser for precise distance measurement.**
- **Powerful Micro-Processor with self diagnostics.**
- **Time-of-Flight Measurement Technique.**
- **Standard Interfaces include RS232/RS422 Serial, 4-20mA Analog and two digital switched outputs.**
- **Selectable visible Class II laser pointer for aiding alignment.**
- **Measurement Range of over 800M to a Reflector and up to 155M off Natural Surfaces.**
- **Close-up range blanking for lens dirt & dust suppression.**

Features

- Non-contact distance measurement
- High precision and resolution
- Fast measurement rate
- Robust compact industrial design
- Single, multiple or mean average measurement
- Dual digital outputs for zone protection
- Standard Interface: RS232/RS422 and Analog
- Intelligent LDM incorporating continuous self test
- Configuration software included
- Optional Network Interface: PROFIBUS DP
- Secondary Environmental Enclosures are available for additional protection for indoor, outdoor crane mounting and elevated temperature applications.

MDHD Product Family

The MDHD Product Family consist of electro-optical range finders that feature compact design and application oriented measuring technology.

The range to natural surfaces is 155 M. When using reflectors or glass prisms the range increase up to 1200M.

Other sensors that are part of the MDHD Product Family:

- ELDP10 for measurements to a reflector panel at distances over 80M or to natural surfaces up to 15M.
- MDHD600 for measurements to a reflector panel at distances over 600M, and up to 1200M when using glass prism reflectors.

Typical Applications

Product Material	Length, width, level and position of product.
Material Handling	Positioning of Automated Storage/Retrieval Systems and other handling vehicles.
Metals Industry	Measure/Position slab, billet, bloom or bar, automatic cutoff and coil diameter.
Crane Control	Positioning of cranes & crane trolleys on X, Y and Z axis.
Collision Avoidance	Distance safety warning between vehicle and reflective target.

ELDP Description

The MDHD100 Laser Distance Meter operates via a unique pulsed time-of-flight (TOF) measurement technique and measures distances to reflectors in a working range of over 800 meters or to natural surfaces in a working range up to 155M. The MDHD100 transmits ultra-short light pulses at the rate of 1000 measurements per second, measures the TOF to the reflector and back to derive the distance and transmits this data information via an interface to a computer, PLC or an analog instrument.

The MDHD100 is equipped with a powerful μ -Processor to handle a variety of measurement tasks and self diagnostics. By means of parameterized mean value calculation, high dynamic positioning tasks may be accomplished.

Two programmable threshold bands can be defined. Measurements below these thresholds are indicated via digital outputs & LED's. These thresholds & outputs are programmable via a RS232 or RS422 connection to a computer or a PLC. The MDHD100 is equipped with a switch selectable opto-coupled RS 232, RS422 & programmable analog interface as standard. Only one digital output is available if the analog interface is selected. An optional PROFIBUS DB Interface is also available.

MODULOC Technology - The Total Laser Solution

MODULOC Control Systems Ltd.

Wheathamstead, 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

