



MLB LASER TRIANGULATION METERS



- **Advanced Laser Technique & Line Scan Camera with digital signal processing.**
- **Non-Contact Measurement of Distance, Displacement, Thickness & Difference.**
- **Works on almost any surface.**
- **Measurement ranges: 115 - 415 mm.**
- **Resolution: 0.05 mm - 0.08mm.**
- **Serial & Analog Outputs**

Performance

| Model | MLB165 | MLB215 | MLB265 |
|---------------------------|-----------|-----------|-----------|
| Measured range | 115-215mm | 115-315mm | 115-415mm |
| Center distance | 165mm | 215mm | 265mm |
| Resolution | 0.01mm | 0.05mm | 0.08mm |
| Reproducibility | ±0.01mm | ±0.05mm | ±0.08mm |
| Linearity (of Full Scale) | ±0.1mm | ±0.2mm | ±0.3mm |
| Laser Spot Size | Ø 1mm | Ø 2mm | Ø 2mm |

Typical Applications

- **Liquid Level Control**
- **Distance measurement**
- **Thickness Measurement**
- **Weight/Volume Control**
- **Constant Tension Control**
- **Roll Diameter**
- **Profile measurement**
- **Control of vacuum in containers**
- **Measurements for feedback in productions lines**
- **Measurements for quality control and statistics**
- **Vibration Monitoring of a Rotating Object**
- **Control of surface treatments**

General Description

The MLB Laser Triangulation Meter is a compact unit with integrated optics and signal processor for precise measurement of distance or product thickness and width. A focused laser spot is illuminated on the object and the image distance determined by internal Line Scan Camera. LED's indicate when object at center or outside measuring range. Installation disc provided for connection via IBM PC and display of measured values. Measurement data via RS232 and analog outputs.

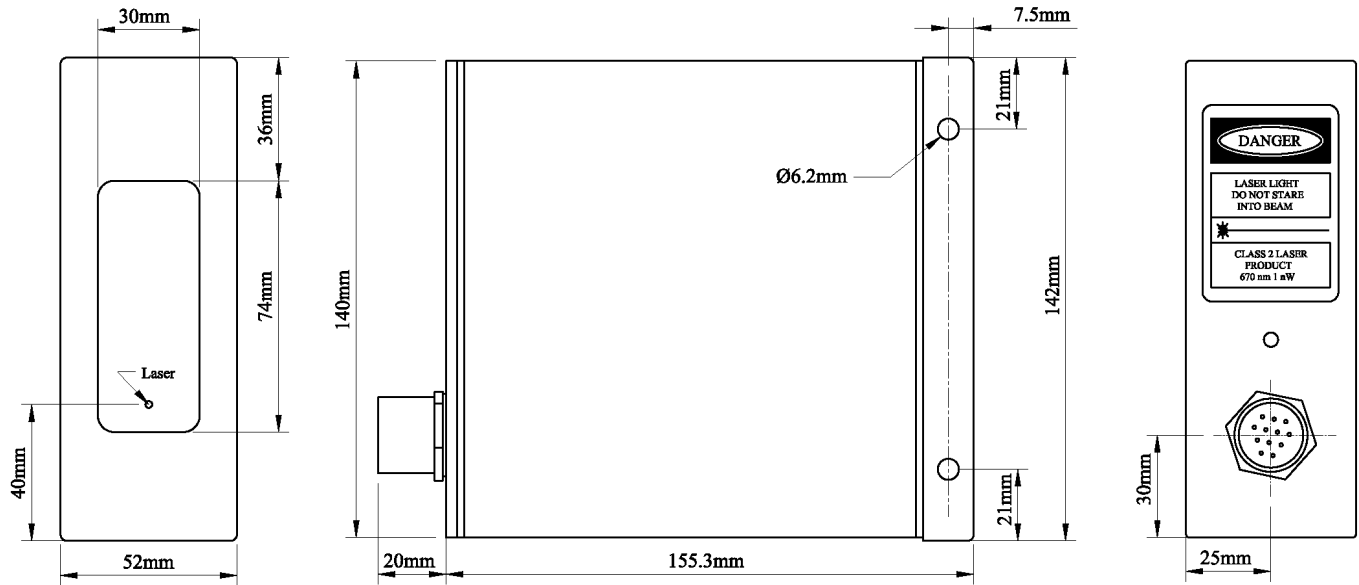
Laser OFF and ON and Output Frequency can be controlled via serial interface. The sensor can be programmed to output a moving averaged value, calculated over a stored number of measuring points with suppression of zero/error values.

This LTM has a broad range of usage for measurement off surfaces where other devices fail. Ideal for measuring off wood, plastic, rubber, paper, foam, textiles, food product, metals as well as various liquids.

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Dimensions

Housing: Aluminum/Glass
Housing Rating: IEC IP65
Weight w/o Cable: 1.6 Kg
Cable Length: 2.5 M, Optional 6M



General Specifications

| | | | |
|-----------------------|----------------------------------|-----------------------|--------------------------------|
| Serial Output | RS232 Standard up to 38400 baud | Supply Voltage | 24VDC \pm 10% |
| Analog Output | 4-20mA | Power Consumption | <4.5 Watt |
| Measuring Frequency | 1000 Hz | Humidity | Max 90% RH (non condensing) |
| Output Frequency | 10 - 1000 Hz (switch selectable) | Operating Temperature | 0°C to +45°C (32°F to 113°F) |
| Laser Class | II, IEC 2, 1 mW | Storage Temperature | -20°C to +70°C (-4°F to 158°F) |
| Temperature Deviation | \pm 0.03% of F.S./°C | Light Source | Visible 670nm laser |

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Control Systems

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

Your Local Sales Representative:



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