



## 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 - 550 mm.**
- **Resolution: 0.05 mm - 0.1mm.**
- **Serial & Analog Outputs**

### Performance

Model	MLB165	MLB215	MLB265	MLB350
Measured range	115-215mm	115-315mm	115-415mm	150 - 550
Center distance	165mm	215mm	265mm	350 mm
Resolution	0.01mm	0.04mm	0.06mm	0.1mm
Reproducibility	±0.01mm	±0.05mm	±0.08mm	±0.4mm
Linearity (of Full Scale)	±0.1mm	±0.2mm	±0.3mm	±0.4mm
Laser Spot Size	Ø 1mm	Ø 2mm	Ø 2mm	Ø 3mm

### 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.

**MODULOC<sup>®</sup> Technology - Lasers for Precise Product Measurement**

**A Rotalec Group Company**

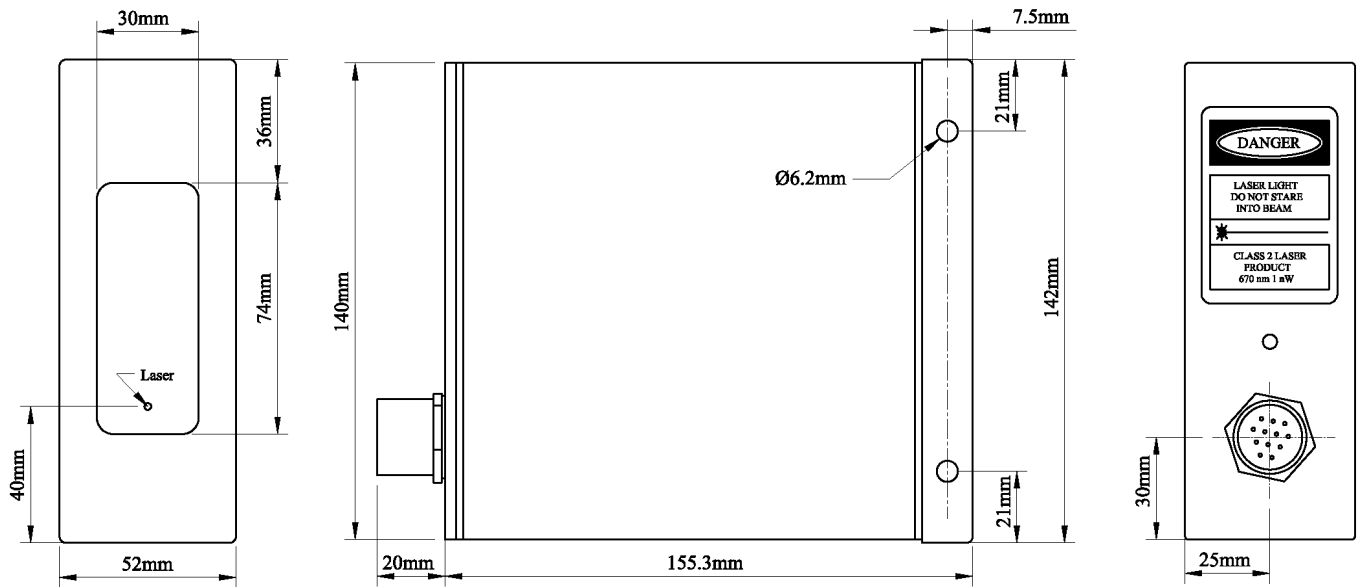
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## Dimensions

**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

## MODULOC<sup>®</sup> Technology - Lasers for Precise Product Measurement

**MODULOC<sup>®</sup>**  
**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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