MODULOC® Control Systems

MLB165 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 range: 115 - 215 mm.***
- ***Resolution: 0.01 mm***
- ***Serial & Analog Outputs***

Performance

Measured range	115 - 215 mm (4.528-8.464IN)	***Measuring range***	100 mm (3.937 IN)
Center distance	165 mm (8.465IN)	***Light Source***	Visible 655 nm Laser
Resolution	0.01 mm	***Size of spot***	Ø 1 mm (0.0393 IN)
Reproducibility (+/-)	±0.01 mm	***Temperature Deviation***	± 0.03% of F.S./°C
Linearity (of Full Scale)	± 0.1 mm		

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 MLB165 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® Technology - Lasers for Precise Product Measurement

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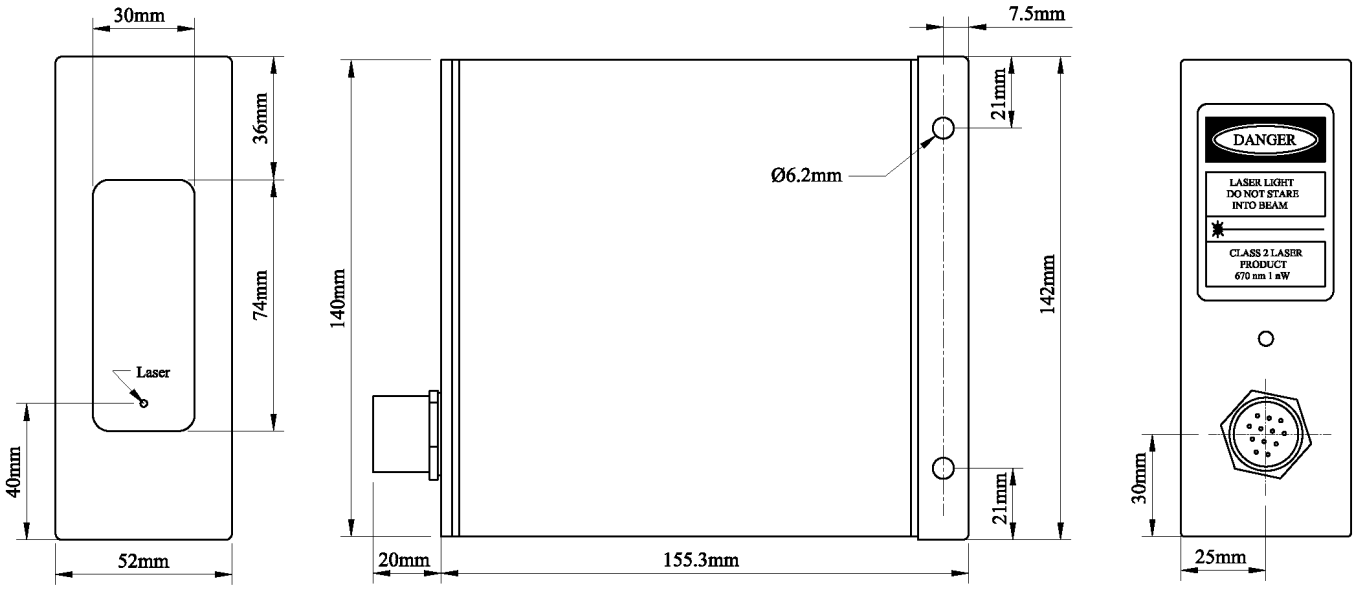
Dimensions

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	Supply Voltage	24VDC ±10%
Baud Rate	38400 baud	Power Consumption	<4.5 Watt
Analog Output	4-20mA	Humidity	Max 90% RH (non condensing)
Measuring Frequency	1000 Hz	Operating Temperature	0°C to +45°C (32°F to 113°F)
Output Frequency	10 - 1000 Hz (switch selectable)	Storage Temperature	-20°C to +70°C (-4°F to 158°F)
Laser Class	II, IEC 2, 1 mW		

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

Your Local Sales Representative:

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