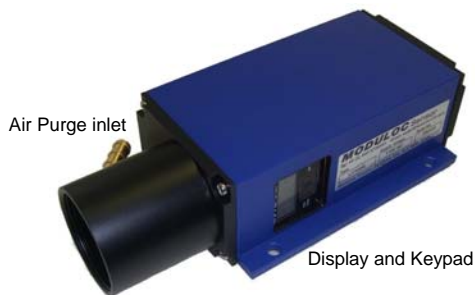




LP100 LASER DISTANCE METER SENSOR



- **Exceptional low cost Laser Distance Meter with programmable transistor and analogue outputs**
- **Incorporates 4 digit Display and programming Keypad**
- **Time-of-Flight (TOF) visible red Class II Laser**
- **Operates in bright daylight**
- **According to Model Operate off Natural Surfaces from 0.2 to 10 meters and off a Prism Reflector from 1 to 75 meters**
- **Repeatability +/- 8mm to 100mm according to range**
- **Programmable 4-20 mA/0-10VDC Analogue Output**
- **Dual programmable N/O or N/C Digital Outputs (One where analogue used) with LED indication**
- **24VDC or 80-250 VAC connection with Relay outputs**
- **Screw Plug connection as standard**
- **Robust aluminum IP65 housing with Air Purge inlet**

Typical Applications

Product Material	Length, width, level and position of product.
Grain and Chemical Silos	Level measurement off most product as TOF measurement.
Material Handling	Automated Storage Systems and positioning of mobile equipment.
Metals Industry	Detect or position slab, billet, bloom or bar.
Crane Control	Positioning of cranes & crane trolleys.
Collision Avoidance	Distance alarm between vehicles using reflective target.

General Description

These LP100 Laser Distance Meters operate over a substantial range off static or moving product. The LP100N measures over a working range of between 0.2 and 10 meters (depending on surface) off natural surfaces and the LP100R up to 75 meters off of a Prism Reflector.

Suitable for detection and measurement off product up to 600°C, or crane control via prism reflector. Alignment is easily accomplished via the visible red laser measuring beam. Repeatability and accuracy is dependant on measuring range

Via the incorporated Display and Keypad the digital switching outputs can be triggered in logic, range and hysteresis function

The zero offset and the span of the 4 - 20 mA analog output are both user programmable. The distance offset is also user programmable, this allows the user to define a zero point independent of the analog output zero offset.

This robust Laser Distance Meter incorporates a built-in air purge. Standard operating temperature is -10 to +60°C.

These exceptionally low cost LP100 Laser Distance Meters are ideal for measuring level in Silos, detection of product in the production process or control of crane positioning as well as collision avoidance

Supplied as standard with a plug/socket connection with 2 mtrs cable.

MODULOC Technology - The Total Laser Solution

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Housing Specifications

Housing: Aluminum AL6, Oven baked blue paint and black anodized end covers

Housing Rating: IEC IP65, DIN 89011

Weight w/o Cable: 1.6 Kg

Connector: IP65 Plug/Socket

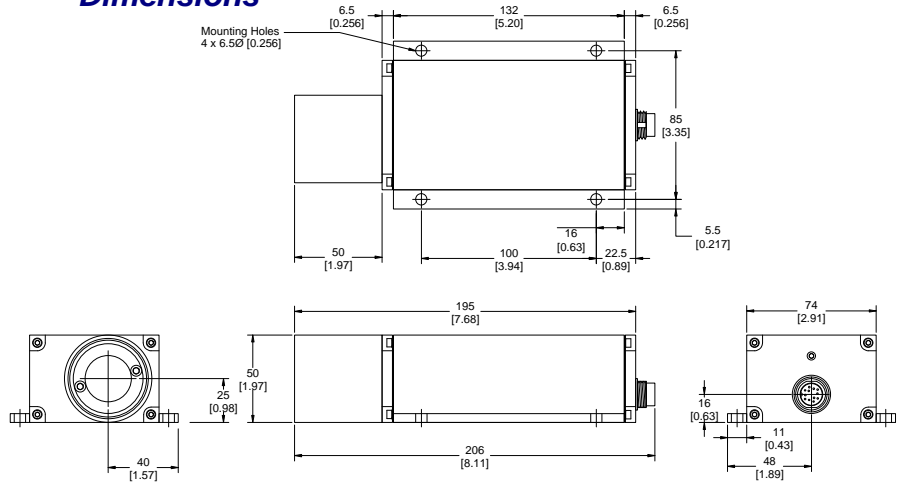
Cable Length: 2.0 M (Optional 5, 10 & 15M Available)

Air Specifications

(with optional air purge)

Air Pressure: 1 cu ft./min at 5 PSI for normal conditions
5 cu ft./min at 15 PSI for severe conditions

Dimensions



All Dimensions are in mm [inches].

General Specifications

Operating range (Type of surface)	Natural Surface: 0.2M to 3 meters depending on surface White Surface: 0.2M to 10 meters Prism Reflector: 1 to 75 meters	Supply Voltage	18 - 30 VDC Optional 80 - 250 VAC available
Accuracy (Ambient 23 deg C) (With increasing range)	LP100 N +/- 15mm to +/-30mm @ 1 Hz +/- 20 mm to +/- 50mm @ 50 Hz	Power Consumption/Rating	150 mA / 2 - 200 mA
	LP 100 R +/- 15 mm to +/- 50 mm @ 1 Hz +/- 15 to +/- 70 mm @ 1 Hz	Operating Temperature	-10°C (14°F) to +60°C (140°F)
Repeatability (With increasing range)	LP 100N +/- 8mm to +/- 20 mm @ 1 Hz +/- 5mm to +/-40 mm @ 50Hz	Storage Temperature	-20°C (-4°F) to +70°C (158°F)
	LP 100R +/- 15 to 40 mm @ 1 Hz +/- 15mm to 60 mm @ 50 Hz	Dimensions	190mm L X 95mm W X 50mm H
Extraneous Light Limit	100,000 LUX	Product Temp. Limit	600°C
Measuring Time	Natural surface: 33 Hz adjustable	Short Circuit protection	Yes, non - latching
	Prism reflector:	Reverse/Overload protection	Yes
Laser Wavelength	650nm, Visible Red at 1.3 ns pulse rate	Programming	Via two built-in buttons
Laser Classification	Safety Class 2 (DIN EN 60825-1), Class II	Display	4 D Digit alphanumeric
Laser Power	Pulsed 4 mW	Minimum Power-On Time	10 minutes
EMC	EN 60947-5-2	Digital Output	Programmable logic, threshold, & hysteresis. 0.5 A limit
Laser Spot Diameter	6mm (0.236in) at 10M, 150 mm (5.9in) at 75 meters	Analog Output	Programmable and scalable 4-20mA or 0-10VDC
MTTF	Typically 50,000 hrs		
LEDs	Switching state - 2 x Yellow LED / Power - Green LED		
Connector	M16 Threaded metal		

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

Your Local Sales Representative:



Bulletin MC-LP100-09-08
August 2009