



The MSE-LT150 is Laser sensor to measure distances with pinpoint accuracy.

- Visible Laser. (Class II) Easy to adjust.
- On natural surfaces up to 30m and with reflector ~130m.
- Cold and hot materials surface.
- Provides standard accuracy of +/- 2mm.
- RS232 or RS422 and RS485, Ethernet, ProfiNet, ProfiBus.
- Programmable 4-20 mA analog output.
- Programmable digital output & offset. External trigger Input.

General Description

Provides high accuracy and great reach under extreme outdoor conditions.

- Works in a wide range of operating voltages from 12 VDC to 30 VDC from an on-board vehicle supply point, an industrial direct voltage supply net or a DC power pack.
- Features consistently low power consumption of <1.5 W
- Up to 30 m reach for distance measurement, with potential for more than 100 m reach if additional reflectors are mounted onto the target
- RS232 (standard) interface port for input of measuring functions and commands from, and output of measured values to, and from PC or a laptop.
- Switching output and analog output are separately programmed.
- Switching output with adjustable limit and hysteresis.
- Measured values can be displayed in meters, decimeters, centimeters or in feet and inches.

Typical Applications

Distance and position measurement & control.

Product Material dimensions

Length, width, level and position of product.

Material Handling

Automated Storage/Retrieval Systems and positioning of mobile equipment.

Metals Industry

Measure/Position slab, billet, bloom or bar. (hot option, available)

Crane Control

Positioning of cranes & crane trolleys. Crane collision avoiding.

Collision Avoidance

Distance with alarm between vehicles using reflective target

Level measurement

Level of solid and fluid materials (also hot fluid like glass, fluid Aluminium etc. / option)

Diameter measurement of coils

Super vision of crane and conveyors

Air Turbo Cooling with Heat-Protection.

Examples of options for differen applications.

Hot Aluminium Level with Temperature Alarm.



Optional Universal Display.



Housing Specifications

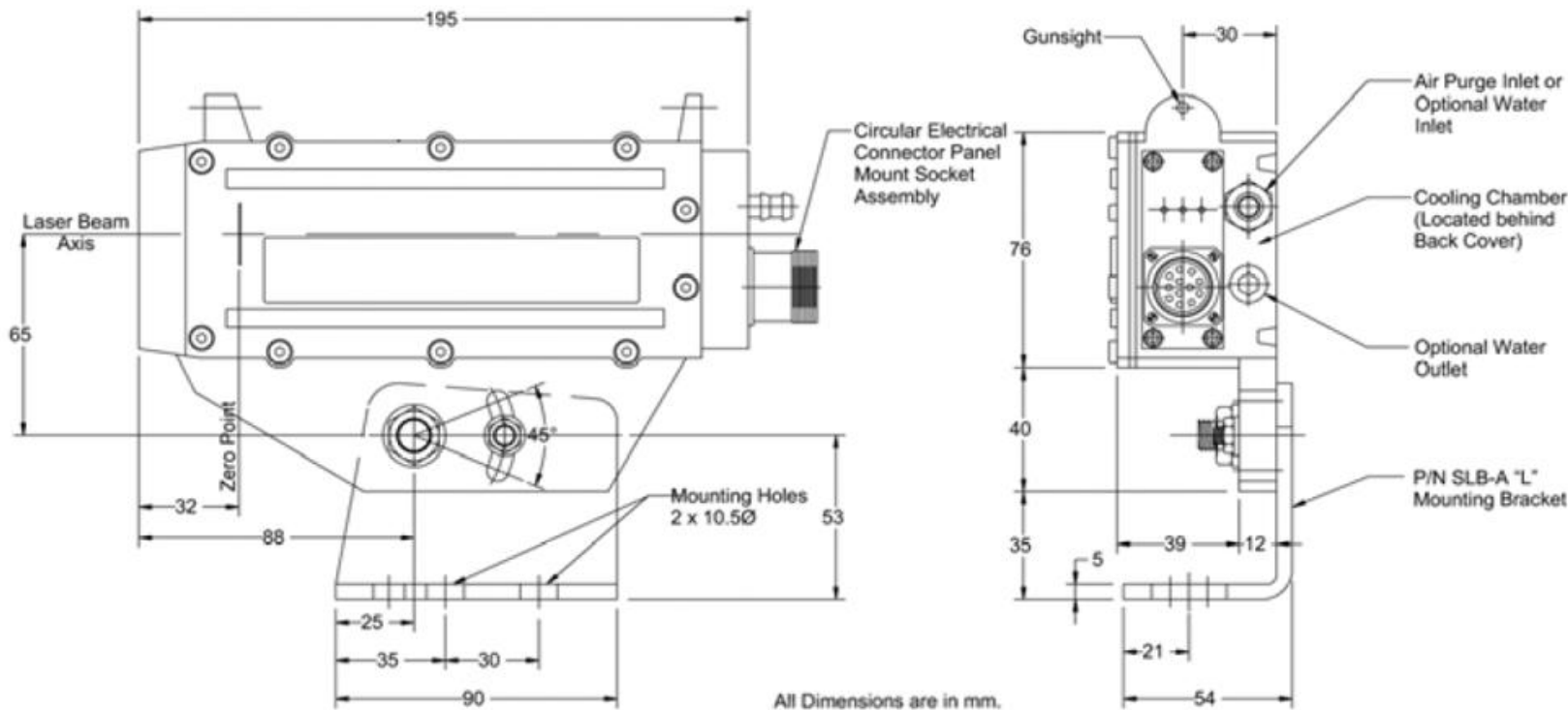
Housing: Aluminum / IEC IP66, DIN, 89011
Weight w/o Cable: 1.9 Kg
Connector: IP65 Plug/Socket
Cable Length: 2 m Standard, up 20 m available
Cooling: Air cooling with air purged /
water cooling with air purged.
Turbo air cooling available too.

Air & Water Specifications

Air Pressure: Air purge at < 0,3 bar for normal conditions
Air cooling 1 to 3 bar for very difficult condition
Water Pressure: Normally 0,3 to 1 bar. 3 bar maximum!
Water Volume: Regulated between 1 - 2 liters/min.
With 1l/min by Ambient Temperature < / = 60°C
and 2l/min by Ambient Temperature < 70°C
Water Temp.: For Ambient Temperature up to 60°C , use ambient water <= 30°C
For Ambient Temperature from 60°C up to 70°C*, 2l / min.
use water chilled < 20°C , 2l / min

*- Ask us for special or different solutions of cooling options.

Dimensions



General Specification

Operating range 1) (Type of surface)	0.1 m up to 30 m with natural surfaces, depending on target reflectance or with reflectors up to 130 m achievable.	Supply Voltage	10 ...30 VDC
		Power Consumption	1 Watt Operating, 0.4 Watt in Standby
Accuracy (according to surface reflectivity) 2)	± 2 mm for 15°C to 30°C ± 5 mm (-10 °C up to +50 °C)	Operating Temperature	-10°C to +50°C no cooling
			-10°C to +60°C water / air turbo cooling
Repeatability	±0.5 mm		-40°C with heating, optional.
Scale (programmable)	Output can be m, cm, mm or yard, feet, inch	Product Temp. Limit	Standard 800°C (Hi-Temp optional model up to 1200°C)
Laser Wavelength	650nm, Visible Red	Programming	via Hyper-terminal and Supplied Software
Laser Classification	Safety Class 2 (DIN EN 60825-1), Class II	Auto Distance Tracking	Can be programmed to start at power on
Laser Power	≤ 1mW	Trigger Input	External trigger Input
Laser Divergence	0.6 mrad	Digital Output	High value output with adjustable threshold, logic & hysteresis. 0.5 A limit
Laser angle tolerance	Better than ± 1° to the ground plane		
MTBF	30,000 hours, 24h / 7days, operation temp. +25 °C	Analog Output	Programmable 4-20mA, 16 BIT
Indication	Power: red LED, receive / send: green / yellow LED		

1). Dependent on target reflectance, stray light influences and atmospheric conditions
2). Statistic spread 95 %

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