

Laser Distance Meters | LAM60 Series | Measuring on hot surfaces and in bright environments







Description and Features

The LAM60 laser distance meters are specialized for distance measurement on hot surfaces, e.g. red hot, glowing steel, and for outdoor use in bright lighting con-ditions with high constant or stray light levels

Suitable measurement targets can be almost all natural surfaces, liquids, or reflectors.

Within a range of 500 meter LAM60 laser sensors provide a maximum measurement accuracy of 1 mm and a measurement frequency of up to 100 Hz.

For convenient data display and parameterization LAM60 sensors are equipped with an OLED display and touch-keys. Due to their standard interfaces, LAM60 sensors are optimized for easy system integration into industrial auto-mation engineering solutions.

Benefits

- Distance measurement on hot surfaces
- Outdoor measurement in bright lighting conditions
- Broad measuring range & millimeter accuracy
- Visible measuring beam (red)
- Industrial standard interfaces
- Digital & analog data output, trigger functionality
- Device control via OLED display and touch-keys

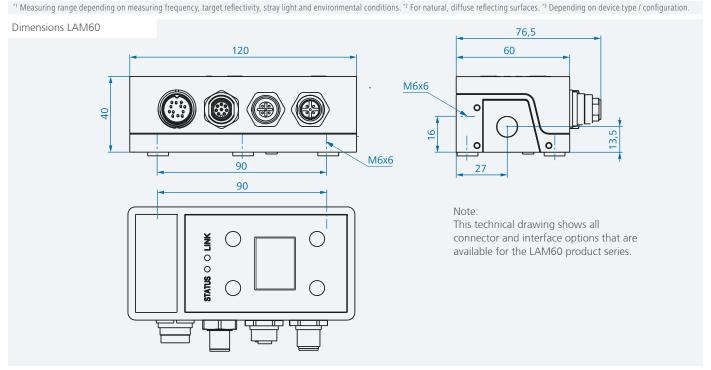
Applications

- Non-contact distance measurement & tracking
- Steel working industry & rolling mills
- Positioning: transportation, handling & conveying systems
- Measurement of filling levels, object thickness & length
- Industrial automation and process control

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Туре	LAM60
Measuring range ¹	0.15 m 500 m
Typical maximum measuring range ¹ on target boards on natural surfaces ²	500 m 100 m
Measuring accuracy (1 σ)	± 1 mm
Measured value resolution	0.1 mm
Maximum measuring frequency	100 Hz
Laser classification	Laser Class 2, EN 60825-1:2007
Wavelength	635 nm (red)
Laser divergence	0.2 mrad (50% laser energy)
Interface options (depending on specific device configuration)	RS-232, RS-422, RS-485, SSI (200 / 250 / 300 kHz), Profibus DP-V0 Slave, 9.6 kBaud 12 MBaud, IEC 61158, IEC 61784
Switching output	3× "high side", up to 0.2 A
Analog output	4 mA 20 mA
Trigger	1× trigger in/out, 3 VDC 30 VDC
Connectors ³	standard: 1× 12-pole M16 optional: 3× 5-pole M12
Display and controls	2 status LEDs OLED dot-matrix display 4 touch keys
Power supply	10 VDC 30 VDC
Power consumption (max.)	$<$ 10 W \mid $<$ 42 W (in heating mode, 24 V)
Operating temperature ³	-40 °C +60 °C
Humidity	15% 90%, not condensing
Protection class	IP 67
EMC	EN 61326-1
Dimensions	120 mm \times 76.5 mm \times 40 mm (L \times W \times H, including connectors)
Weight	approx. 700 g (depending on device configuration)
*1 Measuring range depending on measuring frequency target refl	activity stray light and anyignmental conditions. "2 For natural, diffuse reflecting surfaces, "3 Depending on device type / configuration



It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding.