

Laser Distance Meter

The LM-SD is a laser based distance measurement tool used to measure distances from 0.2m to more than 100m with pinpoint accuracy. A given target can be clearly identified with the help of a red laser sighting point. The usable range of the sensor is dependent upon target physical properties.

The range finder is based on comparative phase measurement. It emits high-frequency modulated light which is diffusely reflected from the target and returns to the instrument with a certain phase shift compared with the emitted signal. The distance can then be determined with millimeter accuracy from the amount of this phase shift

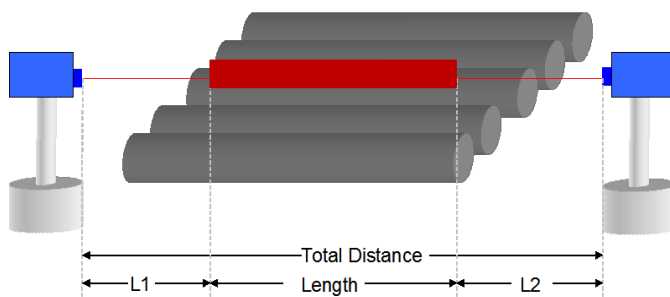


<u>LM-SD</u>	-	<u>XXX</u>	-	<u>D</u>
Base		Power Input		
Model		024 = 24 VDC		
		110 = 110 VAC		
		220 = 220 VAC		

Operating Temp	-10°C to +50°C (14°F to 122°F). With cooling water up to 110°C (230°F)
Power Input	24 VDC ± 10% < 1.5 W
Output	Relay NO/NC 125 VAC @ 0.3 A, PNP output 24 VDC @ 300 mA 4-20 mA @ ≤500 Ω, Accuracy ± 0.15%
Response Time	Relay < 320 ms, PNP < 300 ms
Measuring Range	0.2 m to 100 m (0.6 ft. to 328 ft.) Reflector needed between 30 m and 100 m (98 ft. to 328 ft.)
Target Object	Opaque object larger than φ50 mm (2")
Accuracy	± 3 mm within 30 m (98 ft.) range, Resolution= 0.1 mm
Cable	Insulation 20 MΩ, 500 VDC, ≥ 500°C (930°F)
Housing	Environmentally sealed cast aluminum enclosure rated IP66 includes cooling water connections and air purge
Size	Enclosure; 280 mm L x 89 mm D x 300 mm H (with mounting bracket) (11" L x 3.5" D x 11.8" H), 6 kg (13.3 lbs)
Display	Back Panel online display
Laser	650 nm visible red, <1 mW Class II, 0.6 mrad scattering

Key Features

- IP66 rugged enclosure protects state-of-the-art electronics
- Visible aiming laser for easier sighting
- Provides high accuracy over long distances for temperature up to 1000°C (1832°F)
- Up to 30 m (98 ft.) range for distance measurement with potential for up to 100 m (328 ft.) with additional reflectors
- Standard equipment includes water cooling barb fittings



Typical Applications

- Slab width measurement
- Slab thickness measurement
- Billet positioning.
- Billet / Slab length measurement

Additional Options

- Junction Box - Includes electrical support components
- Shroud - Sheet metal protective cover
- Support Stand - Steel Construction - adjustable for mounting sensors

Cable Terminal Wiring Description.

