

Laser Distance Measuring Device

LMC-J-0510

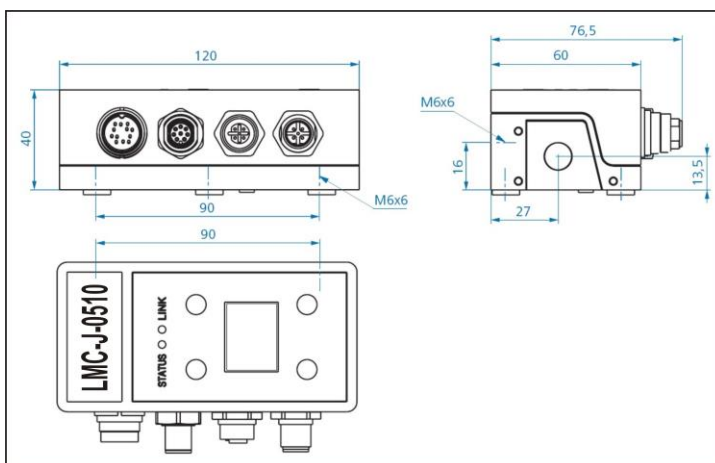
- Non contact distance measurement up to 100 Hz
- Broad measurement range up to 500m with 1 millimeter accuracy
- Visible measuring beam
- Industrial interfaces
- Device control via OLED- display and touch-keys



The LMC-J-510 laser distance meter is robustly engineered especially for industrial applications. No special reflector is needed for distances up to 100m (depending on target reflectivity). With a dedicated reflector, distances up to 500m are possible. Measurement values are provided continuously via the integrated RS232/422/485 interface and 4 to 20mA output.

The LMC-J-0510 provides a measurement accuracy of 1mm and a measuring frequency of up to 100Hz. It also comes equipped with an OLED display and touch keys for convenient data display and parameter settings.

As an option, ProfiBus, Ethernet TCP/IP and SSI interfaces are available for easy integration into industrial automation engineering solutions.



Technical Data

Power supply	10 to 30 VDC
Power consumption	< 5W (with heating 15W @ 24V)
Serial Interface	RS232, RS422 or RS 485
Analog Output	4 to 20 mA
Alarm output	3 high side switches, up to 0.2 A
Trigger	1 trigger in/output, 3 to 30VDC
Optional	ProfiBus, SSI, Ethernet TCP/IP
Laser class	Class 2 (EN 60825-1:2007)
Wave length	$\lambda = 635 \text{ nm}$
Divergence	< 0.35 mrad
Range	0.1 to 500 m (reflector) 0.1 to 100 m (on most natural surfaces)*
Measuring time	10 to 1000 ms
Accuracy (1 σ)	$\pm 1 \text{ mm}$
Resolution	0.1 mm
Connection	Industrial grade
Material of housing	Aluminium
Protection class	IP 67
EMC	EN 61326-1
Temperature range	-40 to +60°C (built in heater)
Dimension (LxWxH)	(120 x 76.5 x 40) mm
Weight	Approx 0.7 kg

*Depending on the target reflectivity, stray light and environment condition

