LOKE MEASURING SYSTEMS

Laser Distance Sensor
LMC-J-0150

COMPACT and FAST:
Up to 30000 Hz measuring and output speed!

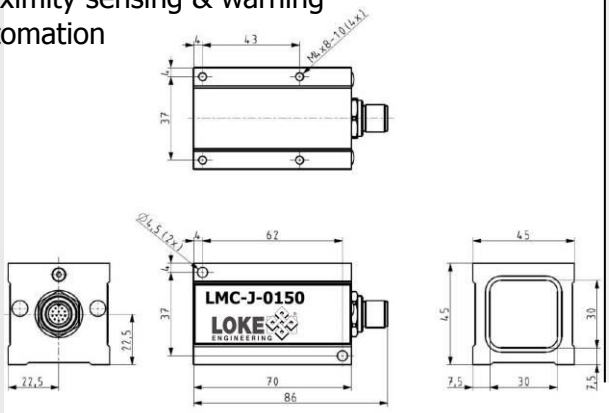
- Compact, lightweight design
- Long measuring range
- Up to 30 kHz measuring rate
- Optional waterproof version
- Optional cast shockproof version
- Low energy consumption
- Eyesafe operation

Description and Features

The LMC-J-0150 laser distance sensors are extremely compact rangefinding modules for general distance detection and high speed applications. Equipped with a 905 nm diode laser, a sensitive photodiode and special optics the LMC-J-0150 sensor measures distances of 100m and more with a measuring rate of up to 30 kHz.
The LMC-J-0150 rangefinder module is contained in a sealed waterproof and cast shockproof housing which makes it suitable for special applications that are subject to high impact on the rangefinder module.

Applications

- Positioning
- Distance measurement
- Proximity sensing & warning
- Automation



Technical Data

Measuring Range	0.2 to 30 m on most natural targets
	0.2 to 270 m with reflector
Accuracy	+/- 50 mm (at 16000 Hz)
Repeatability at 1 δ	+/- 50 mm (at 16000 Hz)
	+/- 16 mm (at 1600 Hz)
	+/- 5 mm (at 160 Hz)
	+/- 2 mm (at 16 Hz)
Resolution	1 mm
Measuring speed	max. 30000 Hz with binary output
	max. 16000 Hz with decimal output
Power supply	10 to 30 VDC @ < 3 W
Serial interface	RS422 or RS232
Analog interface	4 to 20 mA
Alarm output	2 digital high side switches, < 0.2 A)
Options	Heating
Laser class	Class 1 (EN 60825-1:2007)
Wave length	905 nm
Laser divergence	3 x 1 mrad
Reflector	f.e. Scotch light cube 3000x
Housing material	Aluminium
EMC	per EN61326-1
Shock and Vibration	per DIN ISO 9022-3
Protection class	IP 67
Temperature range	0°C to +50°C (operation)
	-40°C to +85°C (storage)
Humidity	10 to 90 % non condensing
Dimension:	45 x 45 x 70 mm (L x W x H)
Weight	Approx. 125 g
MTTF	50,000 hrs

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LOKE ENGINEERING