

Icager Distance Sensor LMC-J-0270

COMPACT and FAST: Up to 40000 Hz measuring and output speed!

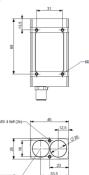
- Compact, lightweight design
- Long measuring range
- Up to 40 kHz measuring rate
- Optional waterproof version
- Optional cast shockproof version
- Low energy consumption
- Eyesafe operation

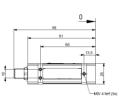
Description and Features

The LMC-J-0250 laser distance sensors are extremely compact range finding 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-0270 sensor measures distances of 150 m and more with a measuring rate of up to 40 kHz. The LMC-J-0270 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





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Technical Data

Measuring Range	0.2 to 150 m on most natural targets, up to 70 m on natural surface with 10% reflectivity
	0.2 to >270 m with reflector
Accuracy (16)	± 60 mm (at 15000 Hz)
Repeatability (16)	±25 mm (at 15000 Hz)
(0.2m70m)	±19 mm (at 1500 Hz)
	± 5 mm (at 150 Hz)
	± 2 mm (at 15 Hz)
Resolution	1 mm
Measuring speed	max. 40000 Hz with binary output
	max. 15000 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 (-40°C)
Laser class	Class 1 (EN 60825-1:2014)
Wave length	905 nm
Laser divergence	2 x 0.4 mrad
Reflector	f.e. Scotch light cube
Housing material	Aluminium
EMC	per EN61326-1
Shock and Vibration	per DIN ISO 9022-3
Protection class	IP 67
Temperature range	-20°C to +50°C (operation)
	-40°C to +85°C (storage)
Humidity	10 to 90 % non condensing
Dimension:	98x 46 x 25 mm (L x W x H)
Weight	Approx. 140 g
MTTF	50,000 hrs

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