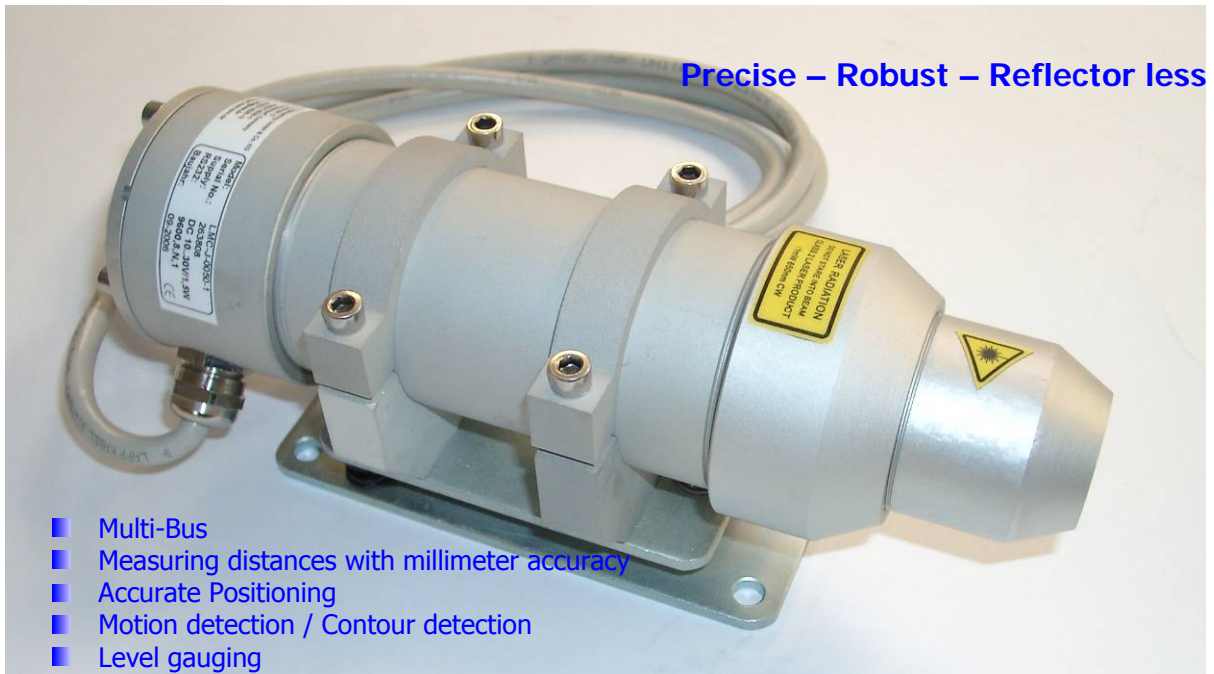


# LMC-J-0050-x

## Laser Distance Meter



The LMC-J-0050-x is an opto-electronic distance measuring module for industrial application. The device uses a contact less measurement technique based on comparative phase measurement with amplitude modulation. The laser diode has a divergence of 0.6 mrad for measurement with pinpoint accuracy.

The measurement data is available through different interfaces for further processing. A digital switching output and an analogue output (4..20mA) are also available. The sensor alignment can easily be achieved using the red laser spot.

The sensor is built in a IP 66 housing which is made for heavy industry area. It includes a special dust protection chamber, which keeps the sensor window much longer clean. As ad on, water cooling and air purge nozzles are available.

It comes including a spring cushioned three point bracket for easy and safe installation. 2 different base plates for horizontal and vertical installation are available.

### Features:

- ✚ Class 2 Laser for eye safe operation
- ✚ Reflector less measurement possible in most cases
- ✚ Millimeter accuracy with most surfaces
- ✚ A lot of different Interfaces are available like RS232/422 4-20 mA, ProfiBus, CANopen, WLAN etc.
- ✚ Dust and waterproof according to IP 66
- ✚ Reduced power consumption
- ✚ Compact housing
- ✚ Wide application spectrum



Measurement  
is our profession



## Main Technical Details:

Measuring range: *1	0.2-30m for natural, diffuse reflecting surfaces. up to max. 150 m possible target board
Measuring accuracy: *2	±3 mm (-10°C...+50°C) ± 2 mm (+ 15°C....+ 30°C)
Repeatability:	≤ ± 0,5 mm
Measuring resolution:	Depends on scale factor (1 mm at SF 1; 0,01mm at SF 100)
Measurement rate:	1 Hz...5 Hz, 10 Hz
Connection	clamp contacts, incl. 2 m cable
Laser divergence:	0.6 mrad
Laser classification:	≤1 mW under IEC 825-1, Laser class 2 (Red light)

\*1 dependent on target reflectivity, stray light influences and atmospheric conditions

\*2 statistical spread 95%

Bracket:	Three-point bracket , spring cushioned available with 2 different base plates for vertical or horizontal installation
Operating temperature:	-10 °C to +50 °C (-40°C with heater) (Storage -20°C + 50°C)
Protection class:	IP 66
Supply voltage:	10 - 30 VDC <1,5 W at 24 VDC
Dimensions:	250 x 90 x 110 mm (L x W x H)
Weight:	approx. 4,3 kg
MTTF	50.000 h
Cable bushing:	Standard lateral; Multiple or custom bushing optional

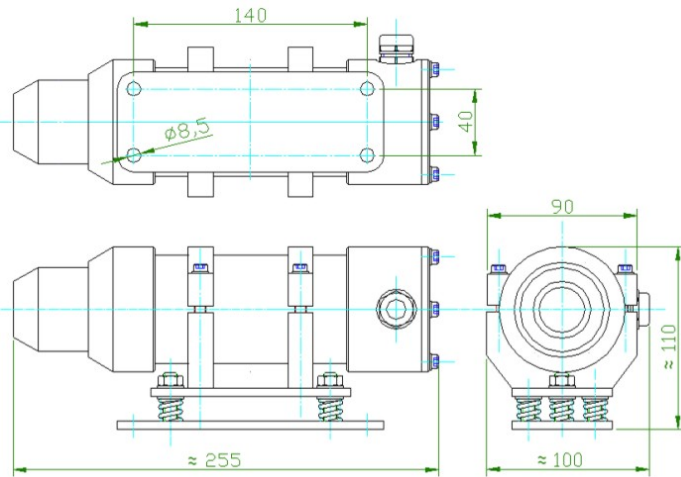
Type	Interfaces	Additional Specification	Optional
LMC-J-0050-1	RS232 / RS422, 4 - 20 mA, 1 switching out, 1 trigger in		
LMC-J-0050-2	RS232 / RS422, 4 - 20 mA, 1 switching out, 1 trigger in	50 Hz	
LMC-J-0050-3	Profibus, SSI, 4 - 20 mA, 2 switching Outputs	50 Hz	
LMC-J-0050-4	EtherNet, 4 - 20 mA, 1 switching out, 1 trigger in	Webserver	50 Hz, 4x I/O
LMC-J-0050-5	Wireless LAN, 4 - 20 mA, 1 switching out, 1 trigger in	Webserver	50 Hz, 4x I/O
LMC-J-0050-6	Bluetooth, 4 - 20 mA, 1 switching out, 1 trigger in		50 Hz
LMC-J-0050-7	CANopen, RS232 Service Interface		50 Hz
LMC-J-0070-1	RS232/422/485, CAN 2.0, SSI	up to 1000 Hz	

## Options:

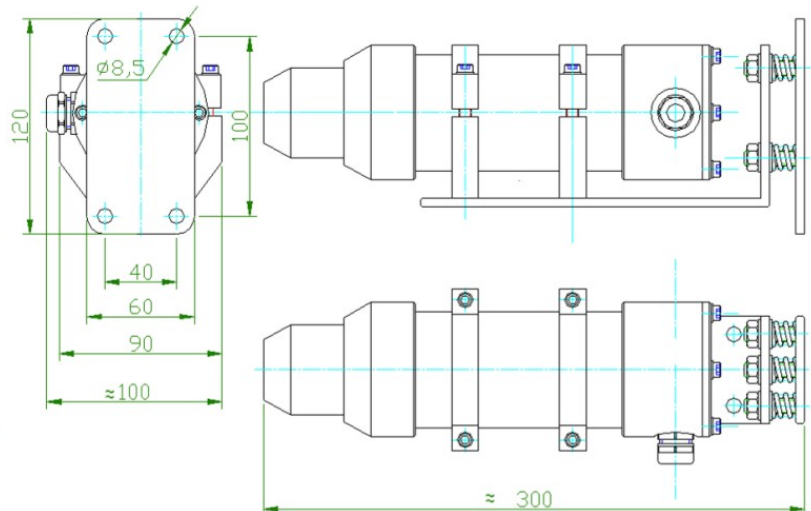
Water cooling, Air Purge, Built In Heater for Temp down to -40 °C, 2 switching Outputs, Custom Made Interfaces

## Bracket Types and Dimensions:

Type A



Type B



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