

EXTENDING THE LIMIT •

## **DL-RL00** Laser Displacement & Vibration Sensor

### Description

Laser displacement sensors, series DL-RL00, are designed for remote distance measurement on three coordinates with resolution better than 10 micron. Their response time is less than 10µs which provides the capability of vibration measurement from 0.1 Hz to 100 kHz.





#### Features

- Small footprint
- Visible light
- Class 1 or Class 2 laser
- Maximum distance 2m
- Lateral resolution less than 10µm



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# DL-RL00

## Laser Displacement & Vibration Sensor



### **Specifications**

Operating Principle	Laser triangulation
Light Source	Red laser, 650 nm
Model DL-RL01	Class 1, power 0.3mW
Model DL-RL02	Class 2, power 1.0mW
Performance Characteristics	
Maximum Distance	
Model DL-RL01	600 mm (25")
Model DL-RL02	2000 mm (80")
Lateral resolution	
Axial:	20 μm
Lateral	10 µm
Operating Conditions	
Temperature	-10°C to +75°C (14°F to +170°F)
Humidity	20% to 95%
Mechanical Characteristics	
Dimensions	Laser sensor head: 35mm (H) x 14mm(W) x 25mm (D)
	Controller: 30mm (H) x 12mm (W) x 60mm (D)
Electrical Characteristics	
Supply Voltage	24VDC (20-32 VDC)
Power Consumptions	0.25W (max)
Output	ModBus RS245

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