

# L-GAGE LH Series

## Product Specifications

<b>Supply Voltage and Current</b>	18 to 30V dc (10% maximum ripple); 250 mA max @24V dc (exclusive of load)
<b>Supply Protection Circuitry</b>	Protected against reverse polarity and transient over voltages
<b>Delay at Power-up</b>	1.25 seconds
<b>Sensing Beam</b>	670 nm (1mW) visible red IEC and CDRH Class 2 laser
<b>Measuring Frequency</b>	Dynamically adjusted from 300 to 4000 Hz depending on target conditions, or locked via LH Series Configurator software.
<b>Ambient Light</b>	≤3000 Lux
<b>Output Configuration and Rating</b>	Analog current output:4 to 20 mA (current sourcing) Analog output rating: 1 kΩ max @ 24V dc, max load resistance = $[(V_{cc} - 4.5)/0.02]\Omega$
<b>Output Response Time</b>	User adjustable output filtering via LH Series Configurator software
<b>Temperature Effect</b>	0.01% of full scale range/°C
<b>Adjustments</b>	None on sensor; Configuration through LH Series Configurator software
<b>Application Notes</b>	Allow 30-minute warm-up
<b>Construction</b>	Housing:Aluminum Cover plate: Aluminum Lens: Glass Cable: PVC and nickel-plated brass
<b>Environmental Rating</b>	IP67
<b>Connections</b>	150 mm (6 in.) M12 8-pin Euro-style pigtail quick-disconnect. Mating QD cables are purchased separately
<b>Serial Communication Interface</b>	RS-485, optically isolated, up to 230 KBaud
<b>Serial Communication Protocol</b>	LH Network
<b>Operating Conditions</b>	Operating Temperature: -10° to +45° C (+14° to 113° F) Storage Temperature: -10° to 80° C (+14° to 176° F)

	Maximum relative humidity: 85% at +45° C, non-condensing
<b>Vibration and Mechanical Shock</b>	<p>Vibration: IEC60947-5-2, 10-55 Hz, 0.5 mm P-P, 3 axis</p> <p>Shock: IEC60947-5-2, 30G, 11 milliseconds, half sine wave, 3 axis</p> <p>Maximum mounting bolt tightening torque: 1 Nm</p>
<b>Factory Default Settings</b>	<p>Measurement Mode: Displacement</p> <p>Sensor Address: Unset (Address 0)</p> <p>Baud Rate: 115200</p> <p>Analog Output: 4-20 mA, positive slope, full scale range</p>
<b>Certifications</b>	CE