



LK-G157

Sensor Head: Long Distance, Wide beam



*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

Model		LK-G157
Reference distance		Diffused reflection: 150 mm 5.91" , Specular reflection: 147.5 mm 5.81" (Specular reflection)
Measuring range		Diffused reflection: ± 40 mm $\pm 1.57"$, Specular reflection: ± 39 mm $\pm 1.54"$ ^{*1*} ^{*2}
Light source	Type	Red semiconductor laser
	Wavelength	655 nm (visible light)
	Laser Class	Class II (FDA CDRH 21CFR PART1040.10)
	Output	0.95 mW
Spot diameter (at reference distance)		Approx. $120 \times 1,700 \mu\text{m}$ $0.0047" \times 0.0669"$
Linearity		± 0.05 % of F.S. (F.S.= ± 40 mm $\pm 1.57"$) ^{*3}
Repeatability		$0.5 \mu\text{m}$ $0.000020"$ ^{*4}
Sampling frequency		20 / 50 / 100 / 200 / 500 / 1,000 μs (Selectable from 6 levels)
LED display		Near the center of the measurement: Green lights Within the measurement area: Orange lights Outside the measurement area: Orange flashing
Temperature characteristics		0.01 % of F.S./ $^{\circ}\text{C}$ (F.S.= ± 40 mm $\pm 1.57"$)
Environmental resistance	Enclosure rating	IP67 (IEC60529)
	Ambient light	Incandescent lamp or Fluorescent lamp: 5,000 lux max.
	Ambient temperature	0 to $+50^{\circ}\text{C}$ 32 to 122°F
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm $0.06"$, 2 hours in each of the X, Y, and Z directions
Material		Aluminum die-cast
Weight		Approx. 290 g (including the cable)

^{*1} The range is obtained by measuring KEYENCE's standard target (ceramic).

^{*2} When the sampling rate is 20 μs , the range becomes -9 **$-0.35"$** (NEAR side) to -15 mm **$-0.59"$** (NEAR side) for Diffused reflection, and -8.7 **$-0.34"$** (NEAR side) to -14 mm **$-0.55"$** (NEAR side) for specular reflection.

^{*3} The range is obtained by measuring KEYENCE's standard target (ceramic) with the Standard mode.

^{*4} The range is obtained by measuring KEYENCE's standard (SUS) with 4,096 times of averaging at the reference distance.

Dimensions

* Download CAD file or product manual for larger image/text and more detail.

lk-g150_head_2_dimension_01.gif

LK-G150(H)/G155(H)

