



## LK-G150

Sensor Head Spot Type



## SPECIFICATIONS

Model		LK-G150
Reference distance		150 mm (Diffuse reflection), 147.5 mm (Specular reflection)
Measuring range		±40 mm (Diffuse reflection), ±39 mm (Specular reflection)
Light source	Type	Red semiconductor laser
	Wavelength	655nm (Visible light), Class 3R laser product (JIS C6802)
	Laser Class	Class 3R (IEC 60825-1), Class IIIa (FDA CDRH Part 1040.10)
	Output	4.8 mW maximum
Spot diameter (at reference distance)		Approx. $\phi 120 \mu\text{m}$
Linearity		$\pm 0.05\%$ of F.S. (F.S. = $\pm 40 \text{ mm}$ ) <sup>*1</sup>
Repeatability		$0.5 \mu\text{m}$ <sup>*2</sup>
Sampling frequency		20/50/100/200/500/1,000 $\mu\text{s}$ (Selectable from 6 levels)
LED display		Near the centre of the measurement: Green lights Within the measurement area: Orange lights Outside the measurement area: Orange flashing
Temperature characteristics		0.01 % of F.S./°C (F.S. = $\pm 40 \text{ mm}$ )
Environmental resistance	Enclosure rating	IP67 (IEC60529)
	Ambient light	Incandescent lamp or Fluorescent lamp: 10,000 lux max.
	Ambient temperature	0 to +50 °C
	Relative humidity	35 to 85 % RH (No condensation)
Vibration resistance		10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in each of the X, Y, and Z directions
Material		Aluminium die-cast
Weight		Approx. 290 g (including the cable)

<sup>\*1</sup> This value was taken when measuring a KEYENCE standard target (ceramic) in standard mode.

<sup>\*2</sup> These values were taken when measuring a KEYENCE standard target (SUS) at a reference distance and with the number of averaging measurements set to 4,096

## 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)

