



LK-G30

Sensor Head Spot Type



SPECIFICATIONS

Model		LK-G30
Reference distance		30 mm (Diffuse reflection), 23.5 mm (Specular reflection)
Measuring range		±5 mm (Diffuse reflection), ±4.5 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
Spot diameter (at reference distance)		Approx. ø30 µm
Linearity		±0.05% of F.S. (F.S. = ±5 mm) ^{*1}
Repeatability		0.05 µm (0.01 µm) ^{*2,3}
Sampling frequency		20/50/100/200/500/1,000 µs (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. = ±5 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. 280 g (including the cable)

^{*1} This value was taken when measuring a KEYENCE standard target (ceramic) in standard mode.
^{*2} Consult your nearest KEYENCE representative for the Class IIIa type with increased repeatability.
^{*3} 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.

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LK-G30(H)/G35(H)

