LK-G152

Sensor Head: Long Distance, Small spot

CE

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

Specifications

Model		LK-G152
Reference distance		Diffused reflection: 150 mm, Specular reflection: 147.5 mm
Measuring range		Diffused reflection: ±40 mm, Specular reflection: ±39 mm[*1][*2]
Light source	Type	Red semiconductor laser
	Wavelength	655 nm (visible light)
	Laser Class	Class II (FDA CDRH 21CFR Part 1040.10), Class 2 (IEC60825-1)
	Output	0.95 mW
Spot diameter (at reference distance)		Approx. ø120 µm
Linearity		±0.05 % of F.S. (F.S.= ±40 mm)[*3]
Repeatability		0.5 µm[*4][*5]
Sampling frequency		20 / 50 / 100 / 200 / 500 / 1000 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.= ±40 mm)
Environmental resistance	Enclosure rating	IP67 (IEC60529)
	Ambient light	Incandescent lamp or Fluorescent lamp: 5,000 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)

[*1] The range is obtained by measuring KEYENCE's standard target (ceramic).
[*2] When the sampling rate is 20 µs, the range becomes -22 (NEAR side) to -40 mm (NEAR side) for diffuse reflection, and -22 (NEAR side) to -39 mm (NEAR side) for specular reflection.
[*3] The range is obtained by measuring KEYENCE's standard target (ceramic) with the Standard mode.
[*4] Consult your nearest KEYENCE representative for the Class IIIa type with increased repeatability.
[*5] The range is obtained by measuring KEYENCE's standard (SUS) with 4,096 times of averaging at the reference distance.

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Dimensions

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

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LK-G150(H)/G155(H)