



## LK-H022

Sensor Head Spot Type, Laser Class 2

CE

## Specifications

Model	LK-H022	
Mounting mode	Diffuse reflective	
Reference distance	20mm <b>0.787"</b>	
Measuring range	$\pm 3$ mm <b><math>\pm 0.12</math>"</b> <sup>*1</sup>	
Light source	Type	Red semiconductor laser
	Wavelength	655nm
	Laser class	IEC 60825-1: Class 2 FDA(CDRH)21CFR Part 1040.10: Class II
	Output	0.95mW
Spot diameter (at standard distance)	$\varnothing 25$ $\mu$ m	
Linearity	$\pm 0.02\%$ of F.S. (F.S.= 6 mm <b>0.24"</b> ) <sup>*2</sup>	
Repeatability	0.02 $\mu$ m (0.01 $\mu$ m) <sup>*3</sup>	
Sampling cycle	2.55/5/10/20/50/100/200/500/1000 $\mu$ s (9 steps selectable)	
Temperature characteristics	0.01% of F.S./ $^{\circ}$ C (F.S.= 6 mm <b>0.24"</b> )	
Environmental resistance	Enclosure rating	IP67
	Ambient light	Incandescent lamp or fluorescent lamp: 10,000 lux max.
	Ambient temperature	0 to +50 $^{\circ}$ C <b>32 to 122 <math>^{\circ}</math>F</b> <sup>*4</sup>
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm <b>0.06"</b> , 2 hours in each of the X, Y, and Z directions
Material	Aluminum die-cast	
Weight	Approx. 230 g	

<sup>\*1</sup> Measurement range when the sampling cycle is 20  $\mu$ s or more.

<sup>\*2</sup> This value is obtained when the KEYENCE standard target (White diffuse workpiece or workpiece with a metal mirror surface only for the LK-H008/LK-H008W) is measured in the normal measurement mode.

<sup>\*3</sup> This value is obtained when the KEYENCE standard target (White diffuse workpiece or workpiece with a metal mirror surface only for the LK-H008/LK-H008W) is measured at the reference distance with the number of averaging measurements set to 16384. The value in parentheses is a typical example of a measurement with the number of averaging measurements set to 65536 and the sampling cycle to 200  $\mu$ s.

<sup>\*4</sup> When the ambient temperature rises to 40  $^{\circ}$ C **104  $^{\circ}$ F** or more, mount this on a metal plate before use.

## Dimensions

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

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LK-H020

