

LK-H057

Sensor Head, Wide Type, Laser Class 2

CE

SPECIFICATIONS

Model		LK-H057
Mounting mode		Diffuse reflective
Reference distance		50 mm 1.97"
Measuring range		±10 mm ±0.39"*1
Light source	Type	Red semiconductor laser
	Wavelength	655nm
	Laser class (JIS C6802)	Class 2
	Output	0.95mW
Spot diameter (at standard distance)		50 µm x 2,000 µm
Linearity		±0.02% of F.S. (F.S.= 20 mm 0.79")*2
Repeatability		0.025 µm*3
Sampling cycle		2.55/5/10/20/50/100/200/500/1000 µs (9 steps selectable)
Temperature characteristics		0.01% of F.S./°C (F.S.= 20 mm 0.79")
Environmental resistance	Enclosure rating	IP67
	Ambient light	Incandescent lamp or fluorescent lamp: 10,000 lux max.
	Ambient temperature	0 to +50 °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. 260 g

*1 Measurement range when the sampling cycle is 20 µs or more.
*2 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.
*3 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 e x ample of a measurement with the number of averaging measurements set to 65536 and the sampling cycle to 200 µs.

Dimensions

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

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