AUTOMATION TRADER

LK-H052

Industrial automation components

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Manufacturer	Keyence
Catalog number	lk-h052
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Measurement Range	±10 mm
Reference Distance	50 mm
Spot Diameter	50 µm
Linearity	±0.02% of F.S. %
Repeatability	0.025 µm
Sampling Cycle	2.55/5/10/20/50/100/200/500/1000 µs
Enclosure Rating	IP67
Operating Temperature Range	0°C to 50°C
Ambient Light Resistance	10,000 lux
Housing Material	Aluminum die-cast

Description

The Keyence LK-H052 is a high-speed, high-accuracy laser displacement sensor head designed for precise measurement applications. Part of the LK-G5000 series, it utilizes optical triangulation technology to deliver exceptional performance.

Operating with a red semiconductor laser at a wavelength of 655 nm, the LK-H052 offers a measurement range of ±10 mm with a reference distance of 50 mm. Its spot diameter at the standard distance is 50 µm, ensuring fine measurement resolution.

The sensor boasts a linearity of ±0.02% of full scale (F.S.) and a repeatability of 0.025 µm, making it suitable for applications requiring high precision. The LK-H052 supports selectable sampling

cycles ranging from 2.55 µs to 1,000 µs, providing flexibility for various measurement needs.

Designed for durability, it features an IP67 enclosure rating, ensuring resistance to dust and water ingress. The sensor operates effectively in ambient temperatures ranging from 0°C to 50°C and can withstand ambient light levels up to 10,000 lux.

Constructed with an aluminum die-cast housing, it weighs approximately 260 g, offering a robust and reliable solution for industrial measurement tasks.