AUTOMATION TRADER

IL-S100

Industrial automation components

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Manufacturer	Keyence
Catalog number	il-s100
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Measurement Range	70 to 130 mm
Reference Distance	100 mm
Spot Diameter	110 × 2700 µm µm
Linearity	±0.025% F.S. (70 to 100 mm), ±0.07% F.S. (70 to 130 mm) %
Repeatability	4 µm µm
Sampling Periods	0.33, 1, 2, or 5 ms
Enclosure Rating	IP67
Operating Temperature Range	-10°C to +50°C
Operating Humidity Range	35% to 85% RH (non-condensing) % RH
Construction Materials	PBT case, SUS304 metal parts, NBR gaskets, glass lens cover, PVC cable
Waga	75 g

Description

The Keyence IL-S100 is a CMOS laser displacement sensor head designed for precise distance measurement applications. Operating with a red semiconductor laser at a wavelength of 655 nm, it offers a measurement range from 70 to 130 mm, with a reference distance of 100 mm.

The sensor head features a spot diameter of approximately 110 × 2700 µm at the reference distance, ensuring accurate measurements. It boasts a linearity of ±0.025% of full scale (F.S.) for distances between 70 and 100 mm, and ±0.07% F.S. for distances between 70 and 130 mm.

The repeatability is 4 µm, providing consistent and reliable performance. Sampling periods are adjustable at 0.33, 1, 2, or 5 ms, catering to various application needs. The sensor head is housed in an IP67-rated enclosure, ensuring durability in harsh environments.

It operates within a temperature range of -10°C to +50°C and a humidity range of 35% to 85% RH, both non-condensing. The device is constructed with a PBT case, SUS304 metal parts, NBR gaskets, a glass lens cover, and a PVC cable, weighing approximately 75 g.

This sensor head is suitable for applications requiring precise distance measurements in industrial settings.