IB-30

Industrial automation components

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Manufacturer	Keyence
Catalog number	ib-30
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Measurement Range	30 mm
Mounting Distance	0 to 300 mm
Sampling Cycle	12,500 times/sec. (80 µs) Hz
Minimum Detectable Object	0.2 mm
Repeatability	10 µm

Description

The Keyence IB-30 is a high-precision laser sensor head designed for accurate positioning and measurement applications. Operating with a visible light semiconductor laser at a wavelength of 660 nm, it offers a measurement range of 30 mm and a mounting distance between 0 to 300 mm.

The sensor boasts a sampling cycle of 12,500 times per second (80 µs) and can detect objects as small as 0.2 mm in diameter. Its repeatability is 10 µm, ensuring consistent and reliable measurements.

The IB-30 is classified as a Class 1 Laser Product, adhering to IEC 60825-1 and FDA (CDRH) Part 1040.10 standards. Designed for durability, it operates effectively in ambient light conditions up to 10,000 lux and can withstand temperatures ranging from 0 to +50 °C with a relative humidity of 35 to 85% RH.

The sensor head is housed in a galvanized die-cast case with a glass lens cover and comes with a 2-meter PVC cable. Weighing approximately 510 g, the IB-30 is suitable for various industrial automation applications requiring precise and reliable laser measurement capabilities.

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