

IA-030

Sensor Head

CE

*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

Model		IA-030
Reference distance		30 mm 1.18"
Measurement range		20 to 45 mm 0.79" to 1.77"
Light source	Type	Red semiconductor laser, wavelength: 655 nm (visible light)
	Laser class	Class 1 (FDA (CDRH) Part1040.10)*1 Class 1 (IEC 60825-1)
	Output	220 µW
Spot diameter (at standard distance)		Approx. 200 x 750 µm 7.89 x 29.53 Mil
Linearity		±0.1% of F.S. (F.S.=±5 mm 0.20", 25 to 35 mm 0.98" to 1.38")*2
Repeatability		2 µm 0.08 Mil*3
Sampling cycle		0.33/1/2/5 ms (4 levels available)
Operation status indicators		Laser warning: Green LED, Analog output: Red LED, Measurement center: Green LED
Temperature characteristics		0.05% of F.S./°C (F.S.=±5 mm 0.20", 25 to 35 mm 0.98" to 1.38")
Environmental resistance	Enclosure rating	IP67
	Ambient light	Incandescent lamp: 5,000 lux*4
	Ambient temperature	-10 to +50 °C 14 to 122 °F (No condensation or freezing)
	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 axis
Material		Housing material: PBT Metal parts: SUS304 Packing: NBR Lens cover: Glass Cable: PVC
Weight		Approx. 120 g (including cable)

*1 The classification is implemented based on IEC 60825-1 following the requirement of Laser Notice of FDA (CDRH).
*2 Value when measuring the KEYENCE standard target (white diffuse object).
*3 Value when measuring the KEYENCE standard target (white diffuse object) at the reference distance, sampling rate: 1 ms, and average number of times: 16.
*4 Value when the sampling rate is set to 2 ms or 5 ms.

Dimensions

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

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