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TECHNOLOGY GROUP

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LS-9030

Head: Standard model without monitor camera

CE

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

Specifications

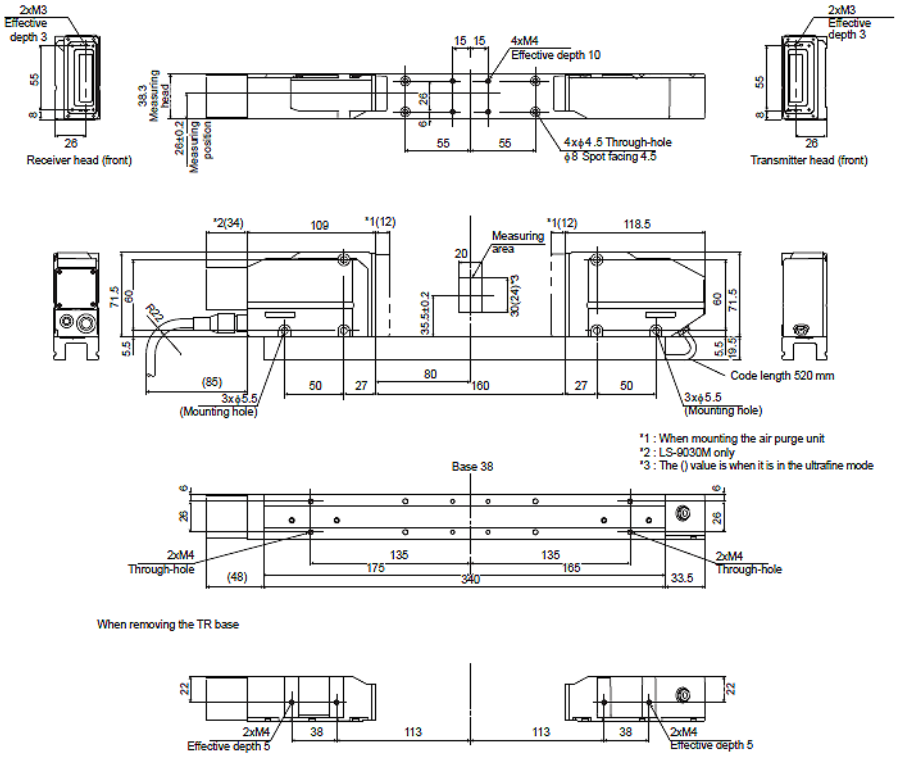
Model		LS-9030*1
Type		Head: Standard model
Measurement range		0.3 mm (0.08 mm) to 30 mm 0.01" (0.003") to 1.18"
Smallest detectable object		0.3 mm (0.08 mm) 0.01" (0.003")
Transmitter/receiver distance		160 ±40 mm 6.3" ±1.57"
Repeatability		±0.1 µm 0.000004"*2
Measurement accuracy		±2 µm 0.000079"*3
Sampling cycle		16,000 samples/sec.*4
Transmitter/receiver direction and position detection	Detection area	20 x 24 mm 0.79" x 0.94"
	Smallest detectable object	0.3 mm 0.01"
	Repeatability	±0.2 mm 0.01"*5
	Sampling cycle	4,000 samples/sec.
Light source		InGaN green LED
Monitor camera		Not provided
Environmental resistance	Enclosure rating	IP67 (including connector)
	Ambient light	Incandescent lamp/Fluorescent lamp: 3,000 lux or lower
	Ambient temperature	0 to +50 °C 32 to 122 °F
	Relative humidity	20 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
	Shock resistance	15 G/6 ms
Material		Aluminum
Weight		Transmitter: Approx. 440 g Receiver: Approx. 440 g Base: Approx. 430 g

*1 The values in brackets are measured in ultra-thin mode. For details on the accuracy of ultra-thin mode, contact the nearest KEYENCE office.
*2 A ±2σ margin of error when measuring a ø10 mm ø0.39" rod in the center of the measurement area using outer diameter mode with the average measurement number set as 2,048 times.
*3 Margin of error when a moving ø10 mm ø0.39" rod is measured in the 10 mm x 20 mm 0.39" x 0.79" measurement area using outer diameter mode.
*4 The sampling cycle is changed by the number of OUT set, and by the use of the mutual interference prevention function.
*5 A ±2σ margin of error when measuring the position of a ø10 mm ø0.39" rod in the center of the measurement area with the average measurement number set as 512 times.

Dimensions

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

ls_9030_9030m_dimension_01.gif



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