



#### IL-065

Sensor heads





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

# **Specifications**

Model		IL-065
Reference distance		65 mm 2.56"
Measurement range		55 to 105 mm 2.17" to 4.13"
Light source	Туре	Red semiconductor laser, wavelength: 655 nm (visible light)
	Laser class	Class 2 (FDA (CDRH) Part1040.10)*1 Class 2 (IEC 60825-1)
	Output	560 μW
Spot diameter (at standard distance)		Approx. 550 × 1750 μm
Linearity		±0.1% of F.S. (55 to 75 mm 2.17" to 2.95")*2*3
Repeatability		2 μm* <sup>4</sup>
Sampling rate		0.33/1/2/5 ms (4 levels available)
Operation status indicators		Laser emission warning indicator: Green LED, Analog range indicator: Orange LED, Reference distance indicator: Red/Green LED
Temperature characteristics		0.06% of F.S./°C*5
Environmental resistance	Enclosure rating	IP67
	Pollution degree	3
	Ambient light	Incandescent lamp: 7,500 lux*6
	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 directions
Material		Housing material: PBT, Metal parts: SUS304, Packing: NBR, Lens cover: Glass, Cable: PVC
Weight		Approx. 75 g

<sup>\*1</sup> The laser classification for FDA (CDRH) is implemented based on IEC 60825-1 in accordance with the requirements of Laser Notice.

<sup>\*2</sup> Value when measuring the KEYENCE standard target (white diffuse object).

 $<sup>^{*3}</sup>$  F.S. of each model is as follows. IL-030:  $\pm 5$  mm  $\pm 0.20$ " IL-065:  $\pm 10$  mm  $\pm 0.39$ " IL-100:  $\pm 20$  mm  $\pm 0.79$ " IL-300:  $\pm 140$  mm  $\pm 5.51$ " IL-600:  $\pm 400$  mm  $\pm 15.75$ " IL-2000:  $\pm 100$ 0 to  $\pm 1500$ 0 mm  $\pm 15.75$ " IL-2000:  $\pm 100$ 0 to  $\pm 1500$ 0 mm  $\pm 15.75$ " IL-2000:  $\pm 100$ 0 to  $\pm 1500$ 0 mm  $\pm 15.75$ " IL-2000:  $\pm 1000$ 0 to  $\pm 1500$ 0 mm  $\pm 15.75$ " IL-2000:  $\pm 1500$ 0 mm  $\pm 1500$ 0

<sup>\*4</sup> Value when measuring the KEYENCE standard target (white diffuse object) at the reference distance, sampling rate: 1 ms, and average number of times: 128. For the IL-300/IL-600, the sampling rate is 2 ms. For the IL-2000, the sampling rate is set to 5ms.

<sup>\*5</sup> F.S. of each model is as follows. IL-030:  $\pm 5$  mm  $\pm 0.20$ " IL-065:  $\pm 10$  mm  $\pm 0.39$ " IL-100:  $\pm 20$  mm  $\pm 0.79$ " IL-300:  $\pm 140$  mm  $\pm 5.51$ " IL-600:  $\pm 400$  mm  $\pm 15.75$ "

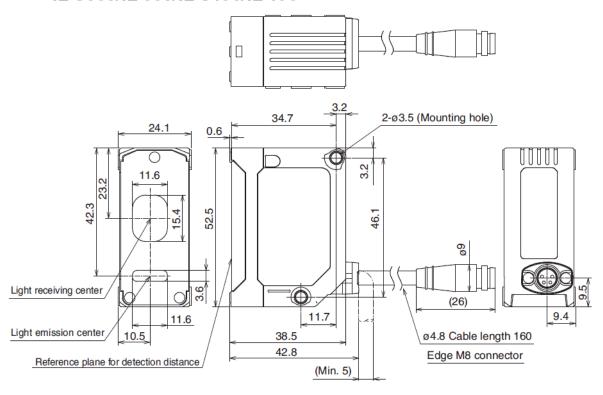
 $<sup>^{\</sup>ast}6$  Value when the sampling rate is set to 2 ms or 5 ms.



# **Dimensions**

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

#### • IL-S065/IL-065/IL-S100/IL-100





### Mounting bracket

