KEYENCE



IL-065

Sensor heads



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*4
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

*1 The laser classification for FDA (CDRH) is implemented based on IEC 60825-1 in accordance with the requirements of Laser Notice No.50.

*2 Value when measuring the KEYENCE standard target (white diffuse object).

^{*3} F.S. of each model is as follows. IL-030: $\pm 5 \text{ mm } \pm 0.20^{\circ}$ IL-065: $\pm 10 \text{ mm } \pm 0.39^{\circ}$ IL-100: $\pm 20 \text{ mm } \pm 0.79^{\circ}$ IL-300: $\pm 140 \text{ mm } \pm 5.51^{\circ}$ IL-600: $\pm 400 \text{ mm} \pm 15.75^{\circ}$ IL-2000: $\pm 1000 \text{ to } -1500 \text{ mm } 39.37^{\circ}$ to -59.05°

*4 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.

^{*5} F.S. of each model is as follows. IL-030: ±5 mm ±0.20" IL-065: ±10 mm ±0.39" IL-100: ±20 mm ±0.79" IL-300: ±140 mm ±5.51" IL-600: ±400 mm ±15.75"

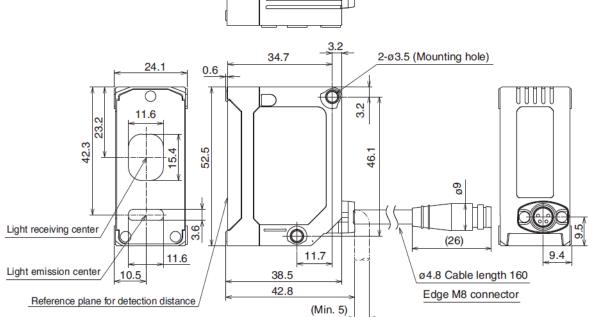
*6 Value when the sampling rate is set to 2 ms or 5 ms.



Dimensions

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

● IL-S065/IL-065/IL-S100/IL-100



Mounting bracket

