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"

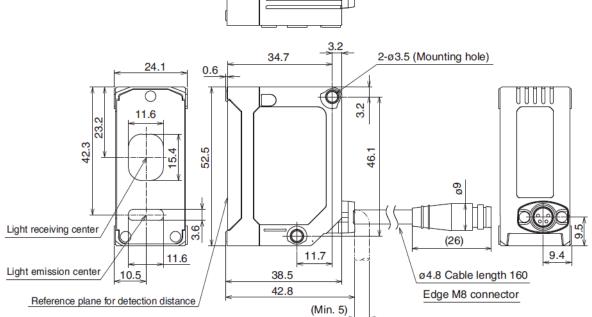
*6 Value when the sampling rate is set to 2 ms or 5 ms.



Dimensions

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

● IL-S065/IL-065/IL-S100/IL-100



Mounting bracket

