



IL-300

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-300
Reference distance		300 mm
Measurement range		160 to 450 mm
Light source	Type	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. ø0.5 mm
Linearity		±0.25% of F.S. (160 mm to 440 mm)* ^{2,3}
Repeatability		30 μm* ⁴
Sampling rate		0.33/1/2/5 ms (4 levels available)
Operation status indicators		Laser emission warning indicator: Green LED, Analogue range indicator: Orange LED, Reference distance indicator: Red/Green LED
Temperature characteristics		0.08% of F.S./°C* ³
Environmental resistance	Enclosure rating	IP67
	Pollution degree	3
	Ambient light	Incandescent lamp: 5,000 lux* ⁵
	Ambient temperature	-10 to +50 °C (No condensation or freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm, 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. 135 g

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

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

*³ F.S. of each model is as follows. IL-030: ±5 mm IL-065: ±10 mm IL-100: ±20 mm IL-300: ±140 mm IL-600: ±400 mm

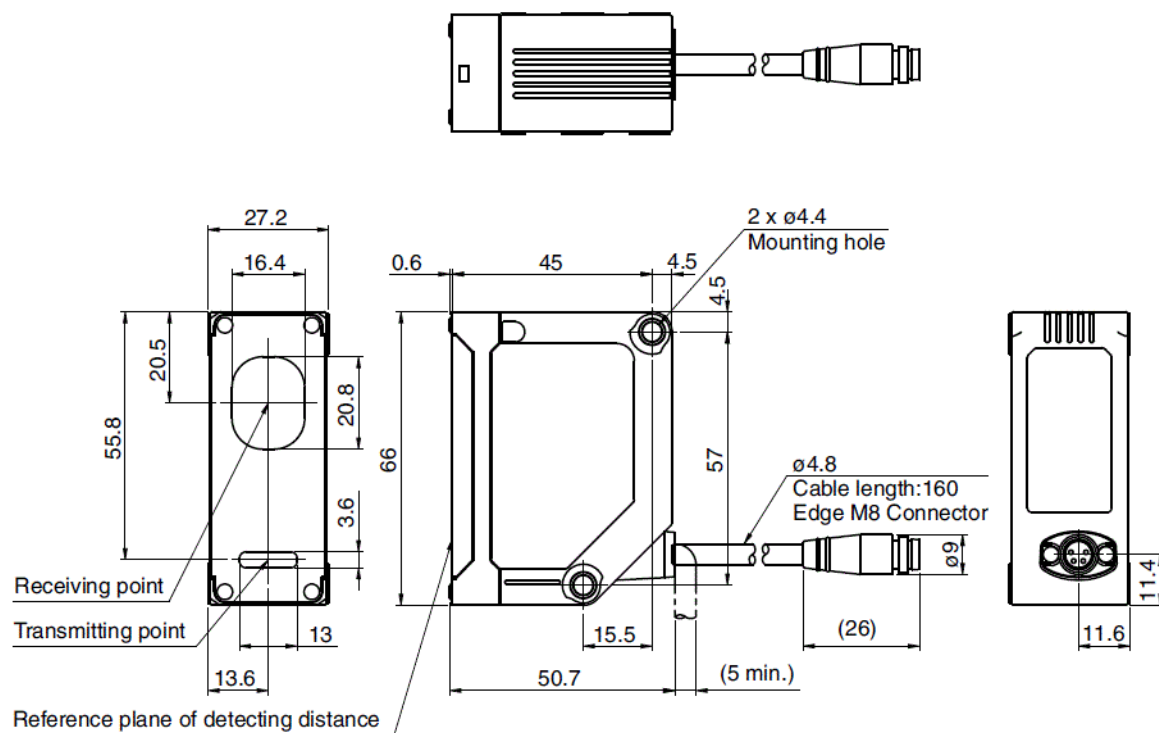
*⁴ Value when measuring the KEYENCE standard target (white diffuse object) at the reference distance, sampling rate: 1 ms, and average number of times: 128. For the IL-300/IL-600, the sampling rate is 2 ms.

*⁵ 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-300/IL-600



Mounting bracket

