

IB-01

Sensor Head





SPECIFICATIONS

Model		IB-01
Light source	Wavelength	660 nm (Visible light semiconductor laser)
	Laser Class	Class 1 Laser Product (IEC 60825-1, FDA (CDRH) Part 1040.10*1)
Mounting distance		0 to 2,000 mm
Measurement range		ø1 mm (Installation distance 0 to 300 mm) ø1 to 2.5 mm (Installation distance 300 to 2,000 mm)
Sampling cycle		12,500 times/sec. (80 μs)
Minimum detectable object		ø8 μm (Installation distance 0 to 300 mm) ø8 to 50 μm (Installation distance 300 to 2,000 mm) ^{*2}
Repeatability		5 μm (distance 0 to 300 mm) ^{*3}
Temperature characteristics		±0.2 % of F.S./°C* ⁴
Operation indicator		Laser emission warning indicator: green LED
Environmental resistance	Ambient light	Incandescent lamp: 5,000 lux, Solar light: 10,000 lux
	Ambient temperature	0 to +40 °C (No 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 axis
Material	Case	PBT
	Lens cover	Glass
	Cable	PVC (2 m)
Weight		Approx. 140 g

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The classification for FDA (CDRH) is implemented based on IEC60825-1 in accordance with the requirements of Laser Notice No.50.

Value when measuring the target (white diffuse object) at the middle of the transmitter and receiver position, and at the centre of the measurement range.

When distance between transmitter and receiver is set to 300 mm, and light is half-shielded at a position 150 mm from receiver. Deflection width (±2σ) when sampled for 30 seconds with an average number of times set to 64 times.

When distance between transmitter and receiver is set to 100 mm and full light is received.



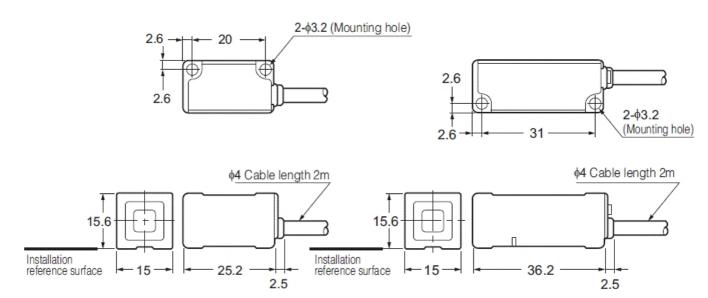
Dimensions

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

IB-01

Receiver

Transmitter



Mounting bracket (accessory) for IB-01

