



IB-10  
Sensor Head



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

Specifications

Model		IB-10
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 300 mm
Measurement range		10 mm
Sampling cycle		12,500 times/sec. (80 μs)
Minimum detectable object		ø0.1 mm*2
Repeatability		5 μm*3
Temperature characteristics		±0.1 % of F.S./°C (±10 μm)*4
Operation indicator		Laser emission warning indicator: green LED
Environmental resistance	Ambient light	Incandescent lamp: 10,000 lux, Solar light: 10,000 lux
	Ambient temperature	0 to +50 °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	Galvanised die cast
	Lens cover	Glass
	Cable	PVC (2 m)
Weight		Approx. 220 g

\*1 The classification for FDA (CDRH) is implemented based on IEC60825-1 in accordance with the requirements of Laser Notice.  
\*2 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.  
\*3 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.  
\*4 When distance between transmitter and receiver is set to 100 mm and full light is received.

