



LB-12
Sensor Head

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

 This model has been discontinued.
Compliance with the certification standard is ensured as of the time of shipment from our company.

Contact Us: 1-888-539-3623

Recommended Replaceable Products: [CMOS Multi-Function Analog Laser Sensor - IL series](#)

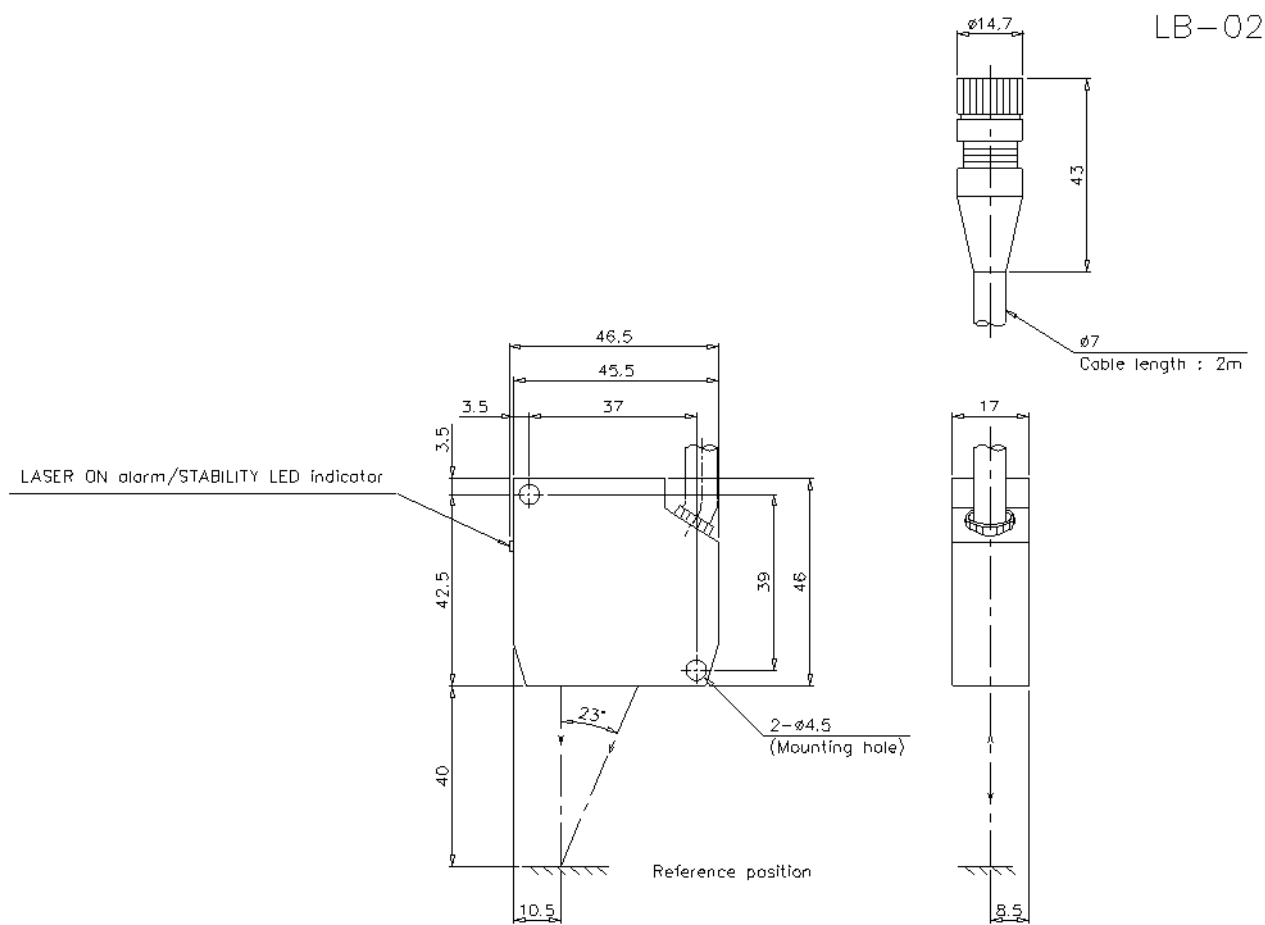
Specifications

Model			LB-12
Type			High-resolution Sensor head
Reference distance			40 mm 1.57"*1
Measuring range			±10 mm ±0.39"
Output	Laser Class	FDA (CDRH) 21CFR Part 1040.10	Class IIIb
		IEC 60825-1	Class 1 Laser Product
Light source	Type	Invisible infrared semiconductor laser	
	Pulse duration	15 μs	
	Wavelength	780 nm	
	Output	3.0 mW (FDA) 1.0 mW (IEC)	
Spot diameter (with white paper)			1.0 mm dia. 0.04"*2
Linearity (with white paper)			1% of F.S.*3
Resolution (at LO mode with white paper at reference distance)			2 μm 0.08 Mil (at 60 ms)/ 15 μm 0.59 Mil (at 2 ms)/ 50 μm 1.97 Mil (at 0.15 ms)*4

^{*1} Distance from the surface of the laser-emitting portion of the sensor head.
^{*2} The beam spot is visible when the object (white paper) is placed at a reference distance from the laser-emitting portion of the sensor head.
^{*3} F.S. stands for a measuring range of 80 mm 3.15".
^{*4} The value when the object (white paper) is measured at a reference distance from the laser-emitting portion of the sensor head.

Dimensions

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



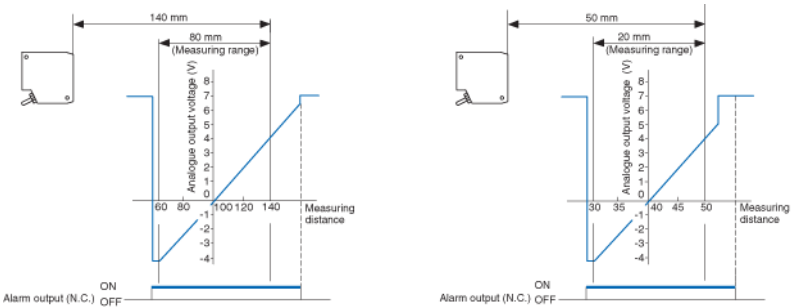
I/O Circuit Connection diagram

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Measuring distance vs. analogue output voltage

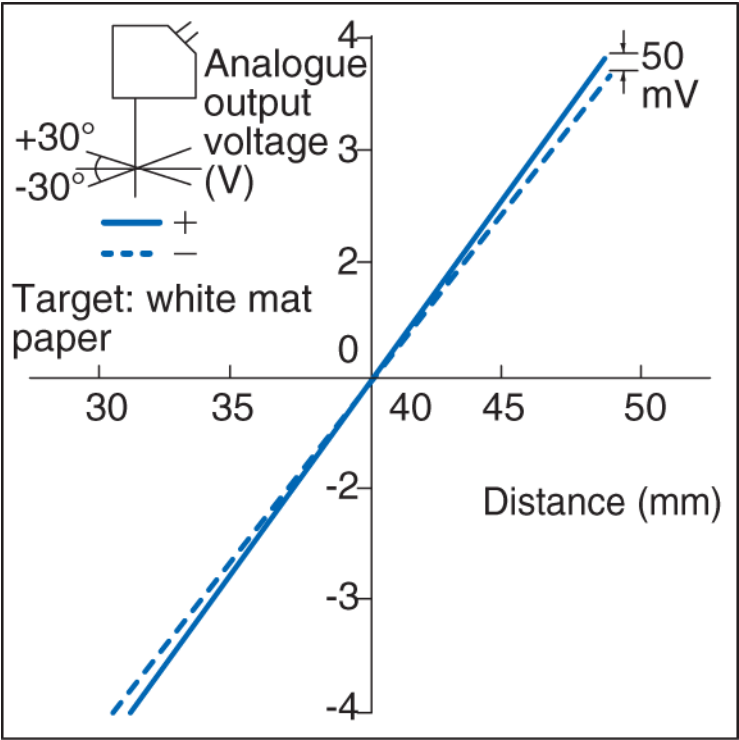
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LB-12

Changes in detection span when target is tilted



I/O Circuit

