LB-70

Amplifier Unit

*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. Contact Us: 1-888-539-3623
Compliance with the certification standard is ensured as of the time of shipment from our company.

Recommended Replaceable Products: CMOS Multi-Function Analog Laser Sensor - IL series

Specifications

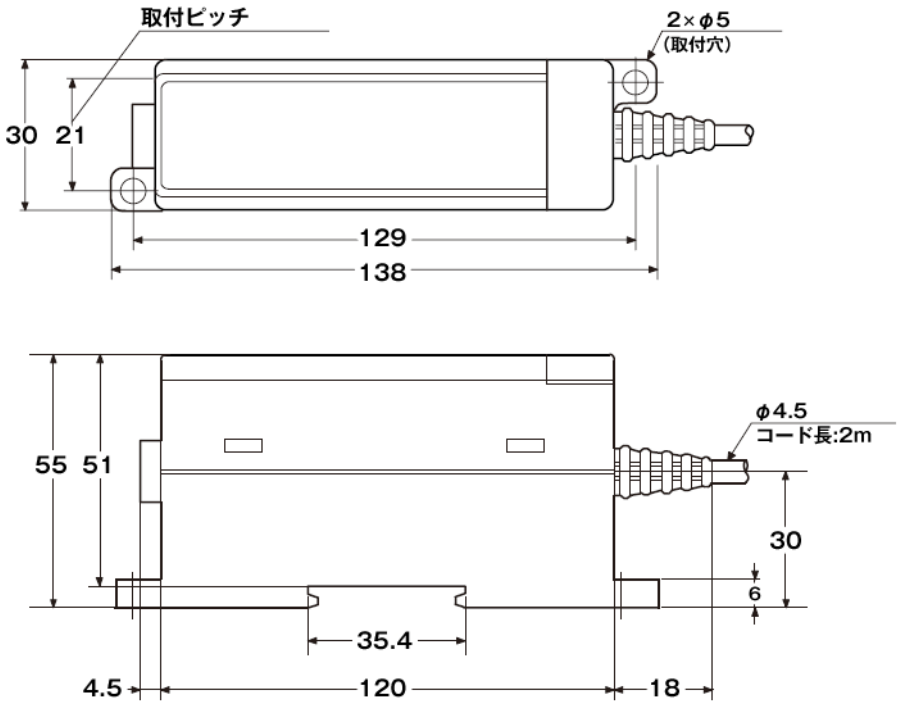
Model			LB-70
Type			Long-range Controller
Reference distance			100 mm 3.94"*1
Measuring range			±40 mm ±1.57"
Output	Laser Class	FDA (CDRH) 21CFR Part 1040.10	Class IIIb
		IEC 60825-1	Class 3R
Light source	Type		Invisible infrared semiconductor laser
	Pulse duration		70 µs
	Wavelength		785 nm
	Output		3.0 mW (FDA (CDRH) Part 1040.10) 2.5 mW (IEC 60825-1)
Spot diameter (with white paper)			1.0 x 2.0 mm 0.04" x 0.08"*2
Linearity (with white paper)			1.6% of F.S. (80 to 120 mm 3.15" to 4.72")*3
Resolution (at LO mode with white paper at reference distance)			10 µm 0.39 Mil 0.39 Mil (at 500 ms)/ 40 µm 1.57 Mil (at 20 ms)/ 180 µm 7.09 Mil (at 0.7 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.

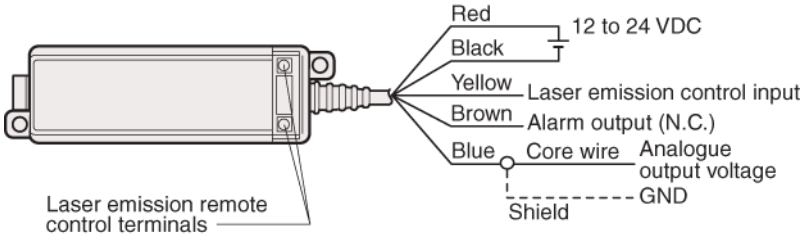
lb_70_dimension_01.gif



I/O Circuit Connection diagram

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

Connections



Laser emission control input
This external input short-circuits the yellow and black cables to stop emission. It is utilized to prevent interference when driving 2 or more sensor heads alternately, or to stop laser beam emission in an emergency.
The analogue output voltage just prior to short-circuiting will be retained.
Laser emission remote control terminals
When the terminals are short-circuited, the LASER ON alarm LED on the front panel lights and laser emission begins after 3 seconds. When the terminals are opened, the LASER ON alarm LED on the front panel turns off and laser emission stops. For shipping purposes, a short-circuit bar is inserted between the terminals.
Alarm output (N.C.)
The alarm output is activated when the light quantity exceeds or falls below a specifi ed limit.