



LR-TB2000

Detection distance 2 m, Cable, Laser Class 2





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

Specifications

Model		LR-TB2000
Туре		Cable
Detectable distance		60 to 2000 mm 2.36" to 78.74"*1
Spot diameter		Approx. ø4 mm ø0.16"
Light source	Туре	Red laser (660 nm)
	Laser class	Class 2 laser product (IEC60825-1,FDA (CDRH) Part1040.10*2)
Mutual interference prevention function		4 units (when using the interference prevention function)
Timer		OFF/OFF delay/ON delay/One-shot
Response time		1 ms/10 ms/25 ms/100 ms/1000 ms selectable
I/O	Control output	NPN open collector/PNP open collector selectable 30 VDC or less, 50 mA or less, residual voltage: 2 V or less, N.O./N.C. selectable *3*4
	Analog output	-
Protection circuit		Protection against reverse power connection, power supply surges, output overcurrent, reverse output connection, and output surge
Power voltage		20 to 30 VDC, including 10% ripple (P-P), Class 2 or LPS
Current consumption		45 mA or less (without load)*5
Environmental resistance	Enclosure rating	IP65/IP67 (IEC60529)
	Ambient light	Incandescent lamp/Sunlight: 10,0000 lux or less
	Ambient temperature	-20 to +55 °C -4 to 131 °F (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm 0.06", 2 hours in each of the X, Y, and Z directions
	Shock resistance	1,000 m/s ² , 6 times in each of the X, Y, and Z directions
Material		Case: Zinc die cast (Nickel chrome plating), Indicator cover and buttons: PES, Lens cover and display: PMMA (scratch-resistant coating specifications), Cable bushing: PBT, Cable: PVC
Accompanying items		Instruction manual, Laser warning and explanation labels
Weight		Approx. 125 g (Including cable)

 $^{^{\}ast 1}$ The range for displayable distance is from 50 to 2200.

Control output + analog output (LR-TB5000/TB5000C/TB5000CL only)

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^{*2} The laser classification for FDA (CDRH) is implemented based on IEC60825-1 in accordance with the requirements of Laser Notice.

^{*3} You can select the I/O from the following combinations.

Control output × 2, control output + external input



External input + analog output (LR-TB5000/TB5000C/TB5000CL only)

(For details on the setting method, see the instruction manual.)

*4 IO-Link specification v.1.1/COM2 (38.4 kbps) is supported. You can download a setup file from the KEYENCE website (http://www.keyence.com). If you are using the product in an environment in which you cannot download files over the Internet, contact your nearest KEYENCE office.

*5 145 mA or less (with load)

Dimensions

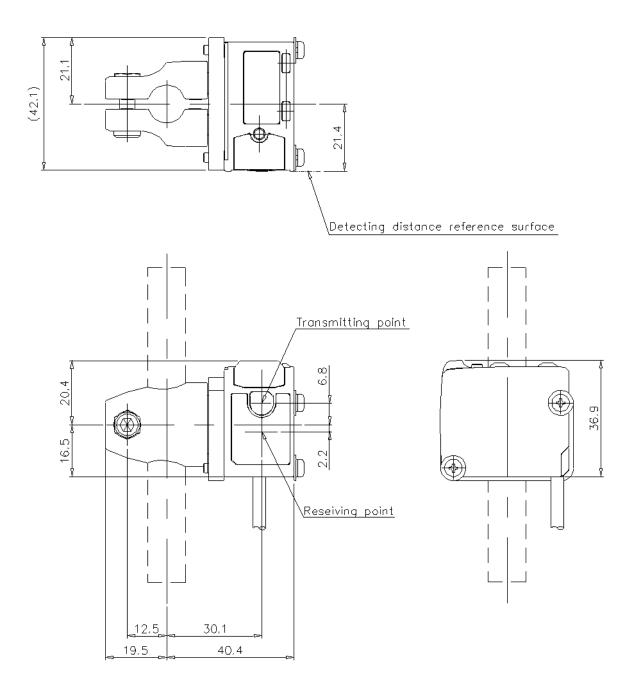
* Download CAD file or product manual for larger image/text and more detail.

Ir-tb2000_2_dimension_01.gif

LR-TB2000 Button <u>Display</u> <u>Indicator</u> 11.8 19 34.3 Detecting distance reference surface Button \Button Transmitting point 34.1 10.3 36. 35 20. Receiving point Ø4,4cores x Brown/Blue/Black/White:0.2mm²/ Cable length: 2m

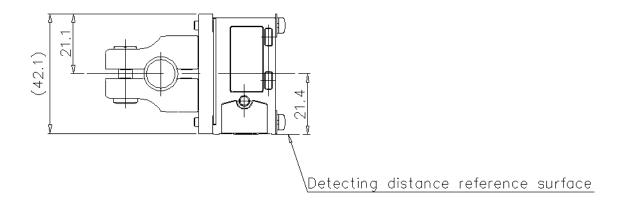


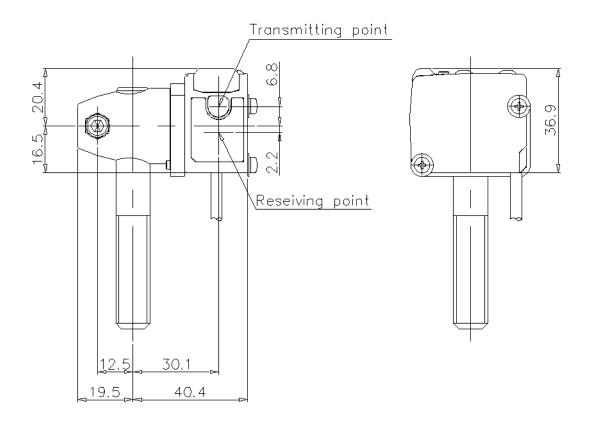
□P-87772/LR-TB2000





□P-87772/□P-87775/LR-TB2000







DP-87776/LR-TB2000

