



LR-TB2000C

Detection distance 2 m, Cable with connector M12, 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-TB2000C	
Type	Cable with connector M12	
Detectable distance	60 to 2000 mm 2.36" to 78.74" ^{*1}	
Spot diameter	Approx. ø4 mm ø0.16"	
Light source	Type	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 over-current, 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: 10,000 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, M12 connector: TPE, PBT, Nickel-plated brass	
Accompanying items	Instruction manual, Laser warning and explanation labels	
Weight	Approx. 85 g	

^{*1} The range for displayable distance is from 50 to 2200.

^{*2} The laser classification for FDA (CDRH) is implemented based on IEC60825-1 in accordance with the requirements of Laser Notice No.50.

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

Control output × 2, control output + external input

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

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.

lr-tb2000c_tb2000cl_2_dimension_01.gif

LR-TB2000C/LR-TB2000CL

