



LR-TB2000CL

Detection distance 2 m, Cable with connector M12, Laser Class 1



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

Specifications

Model		LR-TB2000CL
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 1 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		2 ms/20 ms/50 ms/200 ms/2000 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
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.
^{*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)

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

If you are using the product in an environment in which you cannot download files over the Internet, contact your nearest KEYENCE office.