



LR-W500C

M12 connector type



Specifications

Model	LR-W500C	
Type	M12 connector 4-pin type	
Detecting distance	30 to 500 mm 1.18" to 19.69"	
Min. spot diameter	Adjustable spot Approx. $\varnothing 3.5$ mm at 100 mm $\varnothing 0.14"$ at 3.94" Approx. $\varnothing 9$ mm at 250 mm $\varnothing 0.35"$ at 9.84" Approx. $\varnothing 18$ mm at 500 mm $\varnothing 0.71"$ at 19.69"	
Light source	White LED	
Mutual interference reduction function	Up to 2 units when alternate frequencies set	
Timer	OFF/ON delay/OFF delay/One-shot	
Response time	200 μ s/1 ms/10 ms/100 ms/500 ms selectable *1	
I/O	Control output	NPN open collector/PNP open collector selectable 30 VDC or less, 50 mA or less, remaining voltage: 2 V or less N.O./N.C. selectable *2
	External input	Tuning /Transmission OFF selectable Short circuit current: 1 mA or less for NPN/2 mA or less for PNP For the applied voltage, see the wiring diagrams in the instruction manual. For the input times, see the time charts in the instruction manual. *2
Protection circuit	Protection against reverse power connection, power supply surge, output overcurrent, output surge, and reverse output connection	
Power supply	Power voltage	10 to 30 VDC, including 10% ripple (P-P), Class 2 or LPS
	Current consumption	65 mA or less (without load) at 24 VDC; 120 mA or less (without load) at 12 VDC *3
Environmental resistance	Enclosure rating	IP65/IP67 (IEC60529)
	Ambient light	Incandescent lamp: 10,000 lux or less, Sunlight: 20,000 lux or less
	Ambient temperature	-20 to +50 °C -4 to 122 °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: PPSU, Buttons: PES Lens cover and display: PMMA (scratch-resistant coating), Spot adjustment dial: Iron (triiron tetraoxide coated) Connector ring: PMP, Connector socket: PEI	
Weight	Approx. 110 g	

*1 When alternate frequencies are set, the response time increases by approximately 20%.

*2 IO-Link: Specification v.1.1/COM2 (38.4 kbps) is supported. The setup file can be downloaded from 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.

*3 195 mA or less (at 10 V, with load)

Dimensions

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

lr-w500c_dimension_01.gif

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