



# LR-W70C

Small/Dual Spot Type M12 connector 4pin type



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

## Specifications

Model		LR-W70C
Type		Small/Dual Spot Type M12 connector 4-pin type
Detecting distance		30 to 70 mm
Min. spot diameter		Approx. 1.6 x 2.9mm at 50 mm
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		1-Spot Mode: 200 $\mu$ s, 1 ms, 10 ms, 100 ms, 500 ms selectable 2-Spot Mode, Difference Monitoring: 500 $\mu$ s, 2.5 ms, 20 ms, 200 ms, 999 ms selectable 2-Spot Mode, 2-Point Matching: 400 $\mu$ s, 2 ms, 20 ms, 200 ms, 999 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. *3
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	60 mA or less (without load) at 24 VDC; 110 mA or less (without load) at 12 VDC)*4
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 (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in each of the X, Y, and Z directions
	Shock resistance	1,000 m/s <sup>2</sup> , 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), Connector ring: PMP, Connector socket: PEI
Weight		Approx. 75 g

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

\*<sup>2</sup> 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.

\*<sup>3</sup> 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.

\*<sup>4</sup> 180 mA or less (at 10 V, with load)

## Dimensions

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

lr-w70c\_dimension\_01.gif

