



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 µs, 1 ms, 10 ms, 100 ms, 500 ms selectable 2-Spot Mode, Difference Monitoring: 500 µs, 2.5 ms, 20 ms, 200 ms, 999 ms selectable 2-Spot Mode, 2-Point Matching: 400 µs, 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 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), Connector ring: PMP, Connector socket: PEI | |
| Weight | Approx. 75 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.

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*⁴ 180 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](#)

