

## RGB Digital Fiberoptic Sensor CZ-K1(P) Series

### Instruction Manual



## SAFETY PRECAUTIONS

This manual describes the instructions, operating procedures and precautions for using the CZ-K1(P) Series. Before beginning operation, please read this manual carefully to get the most from your CZ-K1(P) Series. Keep this manual handy for future reference.

### WARNING

- The CZ-K1(P) Series is intended for the detection of target objects. Do not use the CZ-K1(P) Series in a safety circuit to protect the human body.
- The CZ-K1(P) Series does not have an explosion-proof structure. Do not use it in a location where any flammable gases, liquid or powder exist.

## ACCESSORIES

Instruction manual (This manual) : 1

Mounting bracket : 1



Resin driver : 1



## SPECIFICATIONS

### Amplifier

| Model                          | Light output<br>PNP output | CZ-K1<br>CZ-K1P                                                                                                                                                          |
|--------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Light source                   |                            | Red LED, Green LED, Blue LED                                                                                                                                             |
| Response time                  |                            | 300 µs (1 ms switch selectable)                                                                                                                                          |
| Indications                    |                            | Output: Red LED, Calibration: Orange LED, External synchronization input: Green LED, Match/mismatched light intensity: LCD (Red/Green)                                   |
| Error indication               |                            | Excess light intensity, insufficient light intensity, insufficient color distance                                                                                        |
| Calibration method             |                            | 1-point/point calibration (switch selectable)                                                                                                                            |
| Reference value adjustment     |                            | Numerical value setting on digital display                                                                                                                               |
| Differentiation mode           |                            | C mode/C+ (mode) mode (switch selectable)                                                                                                                                |
| Timer function                 |                            | Timer OFF/OFF-delay timer (40 ms) (switch selectable)                                                                                                                    |
| Output mode selection          |                            | Match output: Turns on when target color matches registered color.<br>Mismatch output: Turns on when target color is different from registered color (switch selectable) |
| External synchronization input |                            | Response speed: 500 µs max.                                                                                                                                              |
| External calibration input     |                            | Input response time: 20 ms min.                                                                                                                                          |
| Registered color selection     |                            | 8-bit selection (by external input).<br>Input response time: 20 ms min.                                                                                                  |
| Control output                 |                            | PNP or PNP, open collector: 40 VDC max., (100 mA max.), Residual voltage: 1.0 V max.                                                                                     |
| Protection circuit             |                            | Reverse polarity protection, power supply, input and protection output, surge absorber (output)                                                                          |
| Power supply                   |                            | 12 to 24 VDC ±10%, Ripple: 0.5%, 10% max.                                                                                                                                |
| Current consumption            |                            | 75 mA max.                                                                                                                                                               |
| Ambient light                  |                            | Infrared lamp: 5,000 lux max.,<br>Sunlight: 10,000 lux max.                                                                                                              |
| Ambient temperature            |                            | -10 to +55°C (14 to 131°F), No condensation                                                                                                                              |
| Relative humidity              |                            | 35 to 85%, No condensation                                                                                                                                               |
| Vibration                      |                            | 10 to 55 Hz: 1.5 mm double amplitude in X, Y, and Z directions, 2 hours respectively                                                                                     |
| Shock                          |                            | 500 m/s <sup>2</sup> in X, Y, and Z directions, 3 times respectively                                                                                                     |
| Housing material               |                            | Polycarbonate                                                                                                                                                            |
| Weight (including 2 m cable)   |                            | Approx. 11.5 g                                                                                                                                                           |

### Fiber unit

| Type                   | Reflective                                       |                                       |
|------------------------|--------------------------------------------------|---------------------------------------|
|                        | Small size adjustable spot                       | Small size, side-view adjustable spot |
| Model                  | CZ-10                                            | CZ-11                                 |
| Detection range        | 10 to 30 mm                                      | 3 to 15 mm                            |
| Smallest spot diameter | 0.3 to 3.5 mm dia.                               | 0.3 to 1.5 mm dia.                    |
| Minimum bend radius    | R25 mm                                           |                                       |
| Enclosure rating       | IP40                                             |                                       |
| Ambient temperature    | -40 to +70°C (-40 to +158°F), No condensation    |                                       |
| Relative humidity      | 35 to 85%, No condensation                       |                                       |
| Fiber length           | 2 m (free-out)                                   | 1 m (free-out)                        |
| Housing material       | Lens case: Aluminum, Fiber case: Stainless steel |                                       |
| Weight                 | Approx. 5 g                                      | Approx. 13 g                          |

| Type                   | Reflective                                    |                 |
|------------------------|-----------------------------------------------|-----------------|
|                        | Long detecting distance                       | Small beam spot |
| Model                  | CZ-10                                         | CZ-11           |
| Detection range        | 70 to 200 mm                                  | 15 to 4 mm      |
| Smallest spot diameter | 6 mm dia.                                     | 1 mm dia.       |
| Minimum bend radius    | R25 mm                                        |                 |
| Enclosure rating       | IP67                                          |                 |
| Ambient temperature    | -40 to +70°C (-40 to +158°F), No condensation |                 |
| Relative humidity      | 35 to 85%, No condensation                    |                 |
| Fiber length           | 2 m (free-out)                                |                 |
| Housing material       | Polycarbonate                                 |                 |
| Weight                 | Approx. 27 g                                  |                 |

1. When several units are connected, the acceptable ambient temperature varies depending on the conditions given below. To connect several units, be sure to mount them to a DIN rail (metallic plate). Ensure that the output current is 20 mA max.
- When 3 to 10 units are connected: -10 to +50°C (14 to 122°F)
  - When 11 to 15 units are connected: -10 to +45°C (14 to 113°F)

# Keyence Cz K1p User Manual

**JA Banks**



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