

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 P/NP output	CZ-K1 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 difference
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. Mismatch output: Turns on when target color is different from registered color (switch selectable)
External synchro- nization input		Response speed: 500 µs max.
External calibration input		Input response time: 20 ms min.
Registered color selection		8-bank selection (by external input). Input response time: 20 ms min.
Control output		NPN 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: 50 mV, 10% max.
Current consumption		75 mA max.
Ambient light		Infrared-cut lamp: 5,000 lux max., 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 ² 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)

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