



CZ-K1

Amplifier Unit, Main Unit, NPN

CE

ⓘ This model has been discontinued.
Compliance with the certification standard is ensured as of the time of shipment from our company.

Contact Us: 1-888-539-3623

Recommended Replaceable Products: [Fiber type Cable type - LR-WF10](#)

Specifications

| | | |
|--------------------------------|--|---|
| Model | CZ-K1 | |
| Output | NPN | |
| Light source | Red LED, Green LED, Blue LED | |
| Response time | 300 μ s/1 ms (switch-selectable) | |
| Indicator lamp | Output: Red LED, Calibration: Orange LED, External synchronization input: Green LED, Matching rate/received light intensity: LCD (Red/Green) | |
| Error indication | Excess light intensity, insufficient light intensity, insufficient color difference | |
| Calibration method | 1-point/2-point calibration (switch-selectable) | |
| Tolerance value adjustment | Numerical value setting on digital display | |
| Differentiation mode | C mode/C + I mode/I mode (switch-selectable) | |
| Timer function | OFF-delay timer (40 ms)/Timer OFF (switch-selectable) | |
| Output 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 synchronization input | Response speed: 500 μ s max. | |
| External calibration input | Input response time: 20 ms min. | |
| Registered color selection | 8-bank selection (By external input), Non-voltage input, Input response time: 20 ms min. | |
| Control output | NPN: 40 VDC max. (100 mA max.), Residual voltage: 1.0 V max. | |
| Protection circuit | Reverse-polarity protection (power supply), overcurrent protection (output), surge absorber (output) | |
| Rating | Power voltage | 12 to 24 VDC \pm 10 %, Ripple (P-P) 10 % or less |
| | Current consumption | 75 mA or less |
| Environmental resistance | Ambient light | Incandescent lamp: 5,000 lux max., Sunlight: 10,000 lux max. |
| | Ambient temperature | -10 to +55 $^{\circ}$ C 14 to 131 $^{\circ}$ F (No freezing)*1 |
| | 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 | 500 m/s ² , 3 times in each of the X, Y, and Z directions |
| Case material | Polycarbonate | |
| Weight | Approx. 115 g (including 2-m 6.6' cable) | |

*1 When several units are connected, the ambient temperature requirement varies depending on the total number of units connected.

When 3 to 10 units: -10 to +50 °C 14 to 122 °F

When 11 to 16 units: -10 to +45 °C 14 to 113 °F

When connecting several units, be sure to mount the units to a metallic DIN rail. Make sure that the output current does not exceed 20 mA.

Dimensions

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

cz-v1_dimension_01.gif

