Photoelectric Sensors | Color/Mark Sensor

PR-CMS11
Color Mark Sensor

• 1.5*7 linear light spot, suitable for different application environment detection.
• The detection distance is 23mm, which is 2-3 times of the detection distance of similar color sensors.
• By adjusting the precision to eliminate the vibration of the detected object, the anti-vibration performance is high.
• When detecting the edge of the object or the critical position of two different colors, the detection is stable and reliable.
• With two detection modes of color mark sensor, the performance is greatly superior to the ordinary color mark.
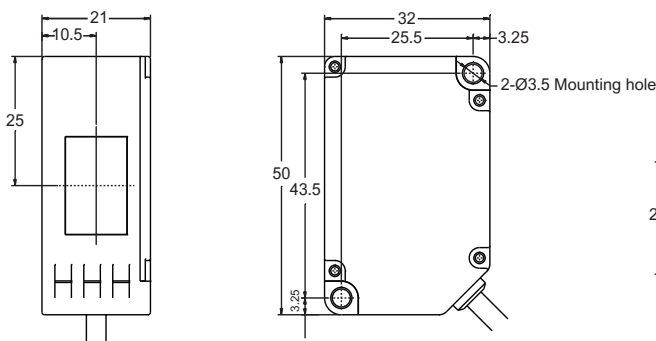• Two point setting, simple and convenient, small size, suitable for different spaces.

RGB

CE

Technical Specifications

Power Source Voltage		24VDC + 10% pulsation less than P-P10%
Current Consumption		Less than 850mW (Power voltage is 24V, the current consumption is below 35mA)
Output		PNP/NPN Open controller transistor, Maximum out*/inflow** current: 50mA The applied voltage is below 30VDC(between output and +V*/0V**) Residual voltage: 1.5V or less(At 50mA load current) *:PNP / **NPN
Response Time		Below 200μs
Detection Distance		23mm
Mode Switching Input	Mark Mode	*Low (OFF) 0 to 0.6VDC or open / **Low (ON) 0 to 0.6VDC Outflow current below 0.5mA Input impedance about 10kΩ *:PNP / **NPN
	Color Mode	*High (ON) 12 to +VDC Outflow current below 3mA Input impedance about 10kΩ **High (OFF) 12 to +VDC or open *:PNP / **NPN
Spot Dimension		1.5*7 (The distance at 23mm)
Light Source		Red / Green / Blue composite LED (Wave peak/wavelength: 640nm / 525nm / 470nm)
Light Source	Mark Mode	Mark output ON
	Color Mode	Color matching ON
Operating Temperature / Humidity		-10~+55C° / 35~85%RH (No freezing and No condensation)
Storage Temperature / Humidity		+20~+70C° / 35~85%RH (No freezing and No condensation)
Circuit Protection		Short-circuit protection equipped (automatic recovery)
Material		Cage: PBT - Operation Panel: PC - Operation Button: Silica Gel - Lens: PC
Connection Type		2m Cable
Weight		About 110g

Dimensions

*Unit : mm

2-Ø3.5 Mounting hole

21
10.5
25
32
25.5
3.25
50
43.5
3.25
21

Model Selection

PR-CMS11P	PNP
PR-CMS11N	NPN

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