

Output type



## Features

- Built-in RGB three-color light source color mode and color mark mode
- The detection distance is 3 times that of similar color mark sensors
- The detection return difference is adjustable, which can eliminate the influence of jitter of the measured object
- Light spot size is about 1.5\*7mm (23mm detection distance)
- Two-point setting method
- Smaller size



Model specification				
NPN	SPM-TNR-RGB	PNP	SPM-TPR-RGB	
Specifications				
Detection distance	1828mm			
Supply voltage	24VDC±10% Ripple P-P < 10%			
Light source	Composite LED:Red/Green/Blue(Light source wavelength: 640nm/525nm/470mm)			
Current consumption	Power < 850mW(Supply voltage is 24V、Consumption current < 35mA)			
Mode switch input	Color mark mode: Low(ON) 00.6VDC; Leakage curre 0.5mA; Input impedance is about 10kΩ.	ent is below Color	mark mode: Low(OFF) 00.6VDC or open	
	Color mode: High(OFF) 12 +VDC or open		mode: High(ON) 12+VDC; Leakage current is below 3mA; impedance is about 10kΩ.	
	NPN open-collector transistor:the max inflow current	is 50mA;The PNP o	pen-collector transistor:the max inflow current is 50mA;The	

applied voltage is below 30VDC(Between output and 0V);Residual applied voltage is below 30VDC(Between output and +V);Residual voltage is less than 1.5V(When inflow current is 50mA)\*

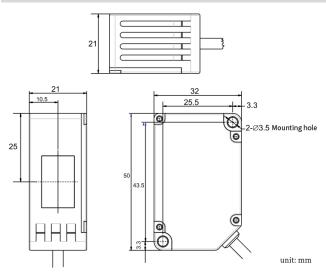
Color mark mode: ON when color mark detection; Color mode: ON when consistent Output operation Protection circuit Short circuit protection

voltage is less than 1.5V(When inflow current is 50mA)\*

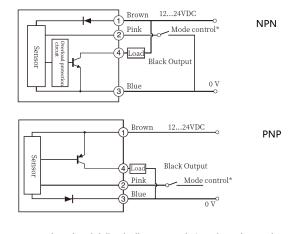
FIOLECTION CIICUIT		
Response time	< 200µs	
Ambient temperature	-1055°C(No condensing、 No condensation)	
Environment humidity	3585%RH(No condensation)	
Housing material	Housing: PBT; Operation panel: PC; Operation button: Silica gel; Lens:PC	
Connection method	2m cable(0.2mm <sup>2</sup> 4-pins cable)	
Weight	About 104g	

\*Specified measurement conditions: ambient temperature +23°C

## Dimensions



## Wiring diagram



Note: When the pink line is disconnected (OFF), it's color mode; When the pink line is connected (ON), it's color mark mode.

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