

## Color Sensors SPM series



### Features

- ◆ Various of circuit protection ensure the production was to be used in safety and stably: Reverse polarity protection, surge protection and short-circuit protection;
- ◆ Clearly instruction method: yellow LED showed the sensor detect status;
- ◆ With excellent components and strictly production control process ensure all of production have a long life and high reliability;
- ◆ Economy cost, easy operate and widely using.

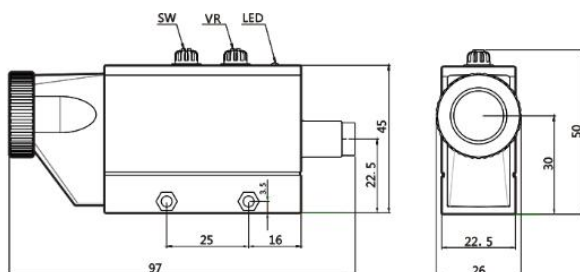
### Part number

NPN NO+NC	SPM-TNR-WB	SPM-TNR-RG
PNP NO+NC	SPM-TPR-WB	SPM-TPR-RG

### Technical specifications

Light source	Visible white light/blue light	Visible red light/green light	Protection circuit	Reverse polarity protection/short-circuit protection/ surge protection
Type	Focus		Output indicator	Yellow LED
Composition	Emitter and receiver in one housing		Ambient temperature	-25°C...55°C
Sn	10±2mm		Ambient humidity	35-85%RH
Supply voltage	12...24VDC		Withstanding voltage	1000V/AC 50/60Hz 60s
Spot diameter	<1.5mm		Insulation resistance	≥50MΩ (500VDC)
Response time	>1ms		Anti-vibration	10...50Hz, double-amplitude; 1.5mm (in each of X, Y, Z direction for 2hours)
Hysteresis	1...15%		Protection degree	IP65
Repeatability	≤3%		Housing material	PBT
Load current	≤200mA		Connection	2m PVC cable
Residual voltage	≤2.5VDC			
Current consumption	≤45mA			

### Dimensions



### Wiring diagram

