# Small size photoelectric sensors **PSM** series

## Features

- 18mm threaded cylindrical mounting, easy to install
- Short case for small installation space
- Big knob design for easy adjustment
- IP67 protection, suitable for harsh environments
- With 360° visible bright LED status indicator
- Suitable for inspection of smooth transparent bottles and transparent films

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#### Model

NPN NO/NC	PSM-GM2DNBR	PNP NO/NC	PSM-GM2DPBR
Specifications			
Detection type	Transparent object detection	Distance adjustment	Single-turn potentiometer
Detection distance	2m*	Indicator	Green LED: power, stable
Light source	Red light (640nm)		Yellow LED: output, short circuit or overload
Spot size	45*45mm@100cm	Anti-ambient light	Anti-sunlight interference ≤ 10,000lux
Standard target	> $\phi$ 35mm object with more than 15% transmittance**		Incandescent light interference ≤ 3,000lux
Output	NPN NO/NC or PNP NO/NC	Operating temperature	-2555 °C
Response time	≤1ms	Storage temperature	-3570 °C
Supply voltage	1030 VDC	Protection degree	IP67
Consumption current	≤20mA	Certification	CE
Load current	≤200mA	Material	Housing: Nickel copper alloy; Filter: PMMA
Voltage drop	≤1V	Connection	2m PVC cable
Circuit protection	Short-circuit, overload, reverse polarity protection	Annex	M18 nut (2PCS), instruction manual,ReflectorTD-09
NO/NC adjustment	White wire is connected to the positive pale or hang on NO mode: White wire is connected to the positive pale NC mode		

NO/NC adjustment White wire is connected to the positive pole or hang on, NO mode; White wire is connected to the negative pole, NC mode

\*This data is the result of the TD-09 test of the reflector of the Lanbao PSM polarized sensor.

\*\*Smaller objects can be detected by adjustment.

\*\*\*The green LED becomes weaker, which means that the signal is weaker and the sensor is unstable; The yellow LED flashes, which means that the sensor is short ed or overloaded;

### Dimensions

# Cable diameter $\phi$ 3.9, Cable length 2m Bending radius 12mm

## **Circuit Diagrams**



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