

# Small size photoelectric sensors PSS 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



### Model

NPN NO/NC	PSS-GM2DNBR-E2	PNP NO/NC	PSS-GM2DPBR-E2
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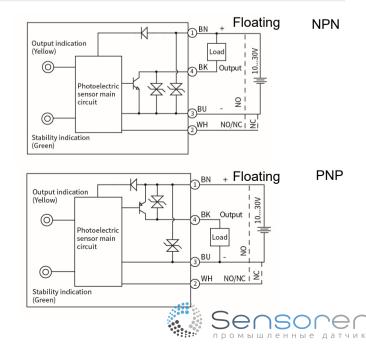
Specifications					
Detection type	Transparent object detection	Distance adjustment	Single-turn potentiometer		
Detection distance	2m*	Indicator	Green LED: power, stable		
Light source	Red light (640nm)		Yellow LED: output, short circuit or overload		
Spot size	45*45mm@100cm	Anti-ambient light	Anti-sunlight interference ≤ 10,000lux		
Standard target	> φ35mm object with transmittance more than 15%**		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: PC+ABS; Filter: PMMA		
Voltage drop	≤1V	Connection	M12 4-core connector		
Circuit protection	Short-circuit, overload, reverse polarity protection	Annex	M18 nut (2PCS), instruction manual,ReflectorTD-09		
NO/NC adjustment	Feet 2 is connected to the positive pole or hang up, NO mode; Feet 2 is connected to the negative pole, NC mode				

<sup>\*</sup>This data is the result of the TD-09 test of the reflector of the Lanbao PSS polarized sensor.

**Dimensions** 

# 46.2 Operation LED yellow Receiver Power LED green

## **Circuit Diagrams**



<sup>\*\*</sup>Smaller objects can be detected by adjustment.

<sup>\*\*\*</sup>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 shorted or overloaded;