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

CE

Model

NPN NO/NC	PSS-GM2DNBR-E2	PNP NO/NC	PSS-GM2DPBR-E2

Specifications
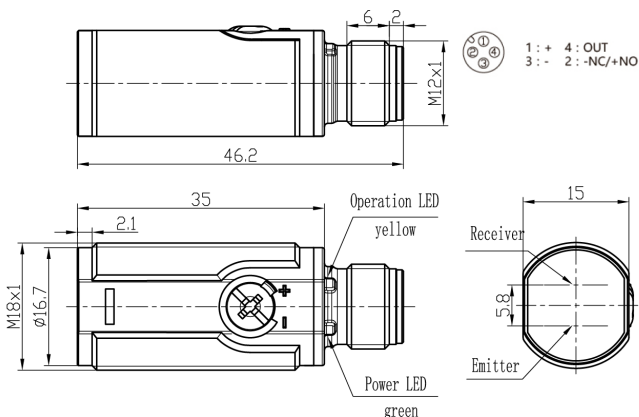
Detection type	Transparent object detection	Distance adjustment	Single-turn potentiometer
Detection distance	2m*	Indicator	Green LED: power, stable
Light source	Red light (640nm)		Yellow LED: output , short circuit or overload
Spot size	45*45mm@100cm	Anti-ambient light	Anti-sunlight interference ≤ 10,000lux
Standard target	> φ35mm object with transmittance more than 15%**		Incandescent light interference ≤ 3,000lux
Output	NPN NO/NC or PNP NO/NC	Operating temperature	-25...55 ºC
Response time	≤1ms	Storage temperature	-35...70 ºC
Supply voltage	10...30 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		

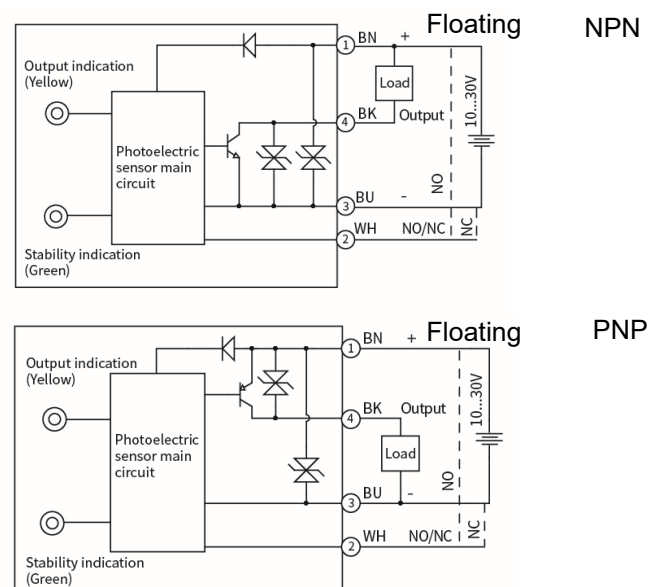*This data is the result of the TD-09 test of the reflector of the Lanbao PSS polarized sensor.

**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 shorted or overloaded;

Dimensions

Circuit Diagrams

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CE

Model

NPN NO/NC	PSS-GM2DNBR	PNP NO/NC	PSS-GM2DPBR

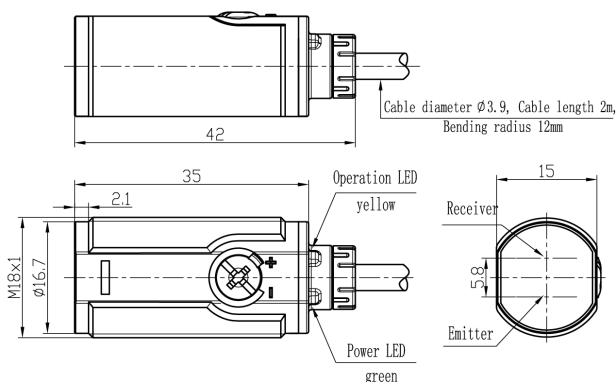## Specifications

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	> φ35mm object with transmittance more than 15%		Incandescent light interference ≤ 3,000lux
Output	NPN NO/NC or PNP NO/NC	Operating temperature	-25...55 ºC
Response time	≤1ms	Storage temperature	-35...70 ºC
Supply voltage	10...30 VDC	Protection degree	IP67
Consumption current	≤20mA	Certification	CE
Load current	≤200mA	Material	Housing: PC+ABS；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 pole or hang up, 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 PSS polarized sensor.

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Dimensions

Cable diameter Ø3.9, Cable length 2m, Bending radius 12mm

42

35

2.1

M18x1 Ø16.7

Operation LED yellow

Power LED green

Receiver

Emitter

15

5.8

Circuit Diagrams

Floating   NPN

Output indication (Yellow)

Photoelectric sensor main circuit

Stability indication (Green)

BN +
BK Output
BU -
WH NO/NC

Load

10...30V

NO
NC

Floating   PNP

Output indication (Yellow)

Photoelectric sensor main circuit

Stability indication (Green)

BN +
BK Output
BU -
WH NO/NC

Load

10...30V

NO
NC