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

CE

Model

NPN NO/NC	PSM-BC100DNB-E2	PNP NO/NC	PSM-BC100DPB-E2

Specifications

Detection type	Diffuse reflection	Hysteresis	3...20%
Detection distance	100cm	Indicator	Green LED: power, stable
Light source	Infrared light (940nm)		Yellow LED: output , short circuit or overload
Output	NPN NO/NC or PNP NO/NC	Anti-ambient light	Anti-sunlight interference ≤ 10,000lux;
Response time	≤0.5ms		Incandescent light interference ≤ 3,000lux
Supply voltage	10...30 VDC	Operating temperature	-25...55 °C
Consumption current	≤20mA	Storage temperature	-35...70 °C
Load current	≤200mA	Protection degree	IP67
Voltage drop	≤1V	Certification	CE
Distance adjustment	Single-turn potentiometer	Material	Housing: Nickel copper alloy；Filter: PMMA
Circuit protection	Short-circuit, overload, reverse polarity protection	Annex	M18 nut (2PCS), instruction manual
Connection	M12 4-core connector		
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		

Remarks:①Detection object is 90% white card with size 20cm * 20cm;

②The 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

1 : +   4 : OUT
3 : -   2 : -NC/+NO

Operation LED Yellow
Power LED Green
Receiver
Emitter

Circuit Diagrams

Floating   NPN

Floating   PNP

Small size photoelectric sensors **PSM** series

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CE

Model

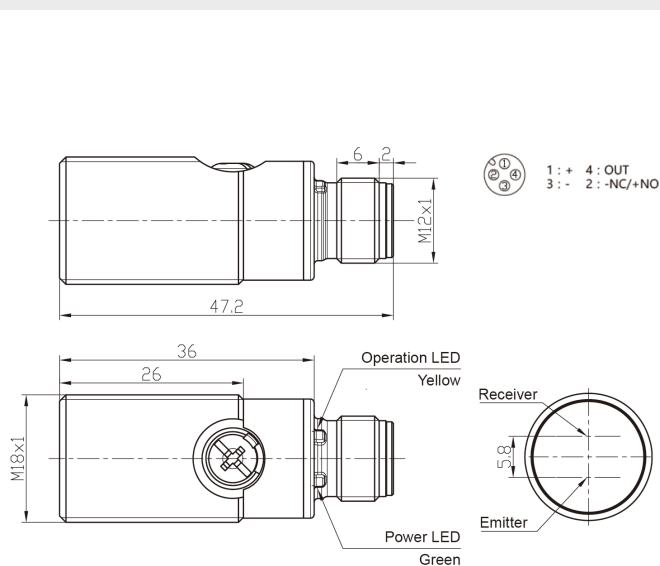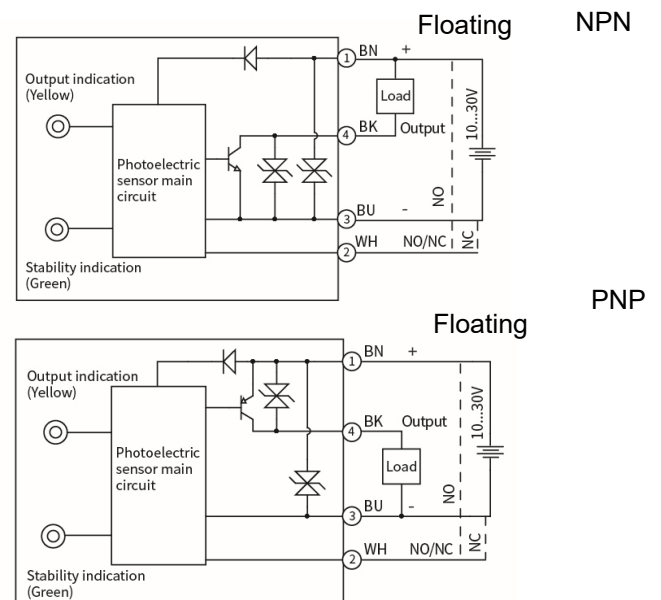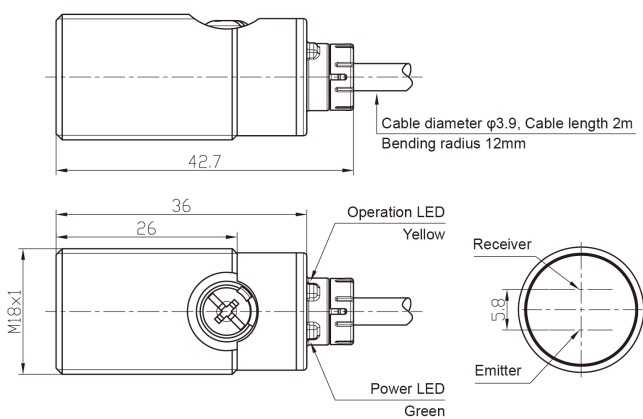| NPN NO/NC	PSM-BC100DNB	PNP NO/NC	PSM-BC100DPB

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Load current	≤200mA	Protection degree	IP67
Voltage drop	≤1V	Certification	CE
Distance adjustment	Single-turn potentiometer	Material	Housing: Nickel copper alloy；Filter: PMMA
Circuit protection	Short-circuit, overload, reverse polarity protection	Annex	M18 nut (2PCS), instruction manual
Connection	2m PVC cable		
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		

Dimensions

Cable diameter φ3.9, Cable length 2m
Bending radius 12mm

42.7

36

26

M18×1

Operation LED
Yellow

Power LED
Green

Receiver

Emitter

5.8

Circuit Diagrams

Floating NPN

Output indication (Yellow)

Photoelectric sensor main circuit

Stability indication (Green)

BN ① +
Load
BK ④ Output 10...30V
BU ③ -
WH ② NO/NC
NO NC

Floating PNP

Output indication (Yellow)

Photoelectric sensor main circuit

Stability indication (Green)

BN ① +
10...30V
BK ④ Output
Load
BU ③ -
WH ② NO/NC
NO NC