

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;
- Small detection blind zone, applicable to detection of objects in bright background;



Model

| | | | |
|-----------|-------------|-----------|-------------|
| NPN NO/NC | PSM-BC10DNB | PNP NO/NC | PSM-BC10DPB |
|-----------|-------------|-----------|-------------|

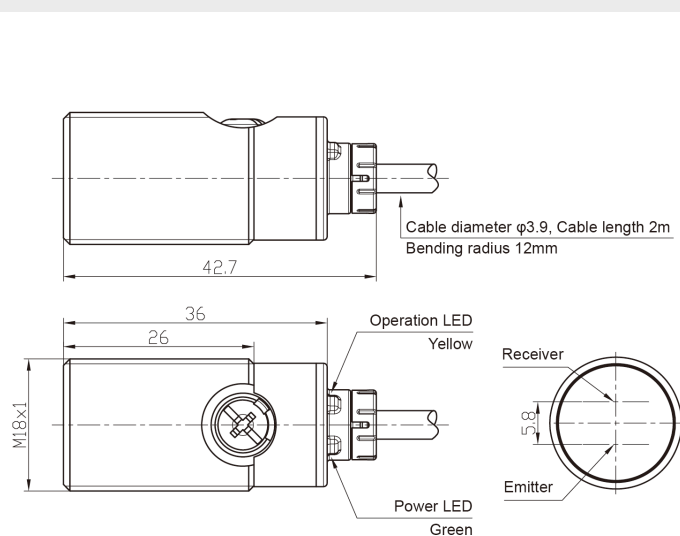
Specifications

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



Circuit Diagrams

