

Small size photoelectric sensors PSS series



Features

- 18mm threaded cylindrical mounting, easy to install
- Short case for small installation space
- IP67 protection, suitable for harsh environments
- With 360° visible bright LED status indicator;
- Background suppression type, stable detection for both white and black targets;



Model

| | | | |
|-----------|--------------|-----------|--------------|
| NPN NO/NC | PSS-YC10DNBR | PNP NO/NC | PSS-YC10DPBR |
|-----------|--------------|-----------|--------------|

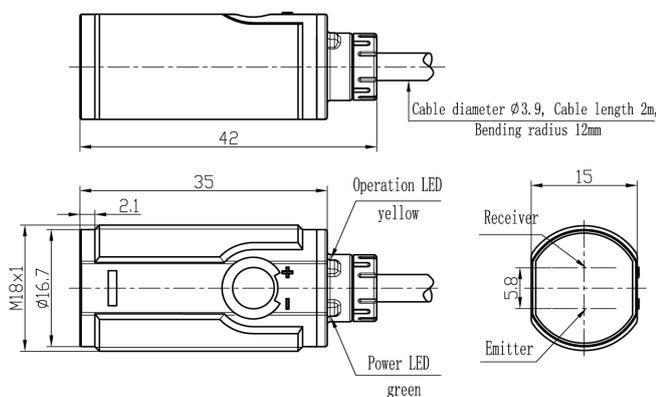
Specifications

| | | | |
|---------------------|---|-----------------------|--|
| Detection type | Background suppression | Indicator | Green LED: power, stable |
| Detection distance | 10cm (unadjustable) | | Yellow LED: output, short circuit or overload |
| Light source | Red light (660nm) | Anti-ambient light | Anti-sunlight interference $\leq 10,000\text{lux}$; |
| Spot size | 8*8mm@10cm | | Incandescent light interference $\leq 3,000\text{lux}$ |
| Output | NPN NO/NC or PNP NO/NC | Operating temperature | -20...55 °C |
| Hysteresis | $\leq 5\%$ | Storage temperature | -35...70 °C |
| Response time | $\leq 0.5\text{ms}$ | Protection degree | IP67 |
| Supply voltage | 10...30 VDC | Certification | CE |
| Consumption current | $\leq 20\text{mA}$ | Material | Housing: PC+ABS; Filter: PMMA |
| Load current | $\leq 100\text{mA}$ | Connection | 2m PVC cable |
| Voltage drop | $\leq 1.8\text{V}$ | Annex | M18 nut (2PCS), instruction manual |
| Circuit protection | Short-circuit, overload, reverse polarity protection | | |
| 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 | | |

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

