# Small size photoelectric sensors PSS series



## Features

- 18mm threaded cylindrical mounting for easy installation;
- Short case for small installation space;
- Big angle, long distance, easy to install and debug;
- With 360° visible bright LED status indicator;
- Excellent anti-light interference, high stability;

CE

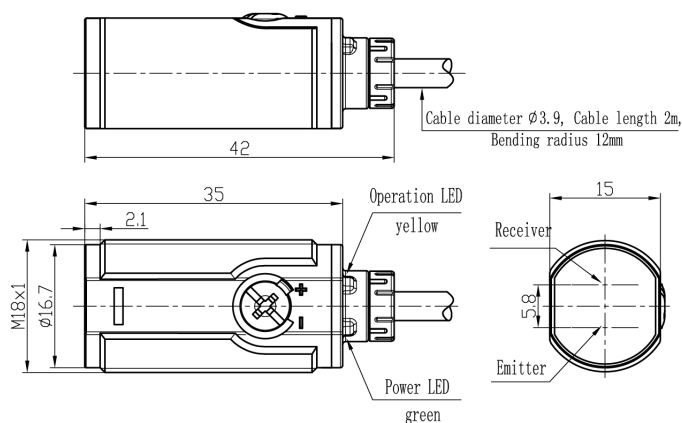## Model

|  | Emitter | Receiver |  | Emitter | Receiver |
|---|---|---|---|---|---|
| NPN NO/NC | PSS-TM20D | PSS-TM20DNB | PNP NO/NC | PSS-TM20D | PSS-TM20DPB |

## Specifications

| | | | |
|---|---|---|---|
| Detection type | Through beam | Circuit protection | Short-circuit, overload, reverse polarity protection |
| Rated distance | 20m | Connection | 2m PVC cable |
| Light source | Infrared (850nm) | Indicator | Green LED: power, stable |
| Standard target | > φ15mm opaque object | | 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 | ≤1ms | | Incandescent light interference ≤ 30,000lux |
| Direction angle | > 4° | Operating temperature | -25...55 ºC |
| Supply voltage | 10...30 VDC | Storage temperature | -25...70 ºC |
| Consumption current | Emitter: ≤20mA ; Receiver: ≤20mA | Protection degree | IP67 |
| Load current | ≤200mA | Certification | CE |
| Voltage drop | ≤1V | Material | Housing: PC+ABS；Filter: PMMA |
| Distance adjustment | Single-turn potentiometer | Annex | M18 nut (4PCS), instruction manual |
| 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: ①The 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