Small size photoelectric sensors PSM 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

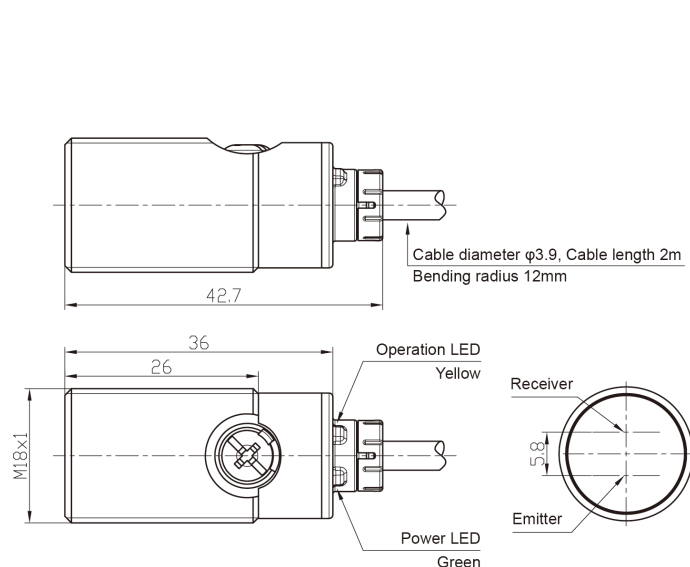|	Emitter	Receiver		Emitter	Receiver
NPN NO/NC	PSM-TM20D	PSM-TM20DNB	PNP NO/NC	PSM-TM20D	PSM-TM20DPB

Specifications

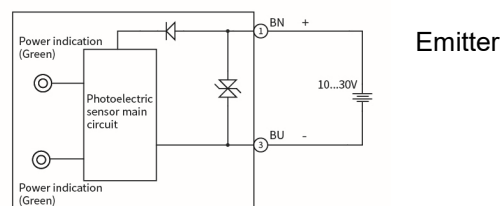|			
Detection type	Through beam	Circuit protection	Short-circuit, overload, reverse polarity protection
Rated distance	20m	Connection	2m PVC cable
Light source	Infrared (850nm)	Indicator	Green LED: power, stable
Standard target	> φ15mm opaque object		Yellow LED: output , short circuit or overload
Output	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	-35...70 ºC
Consumption current	Emitter: ≤20mA ; Receiver: ≤20mA	Protection degree	IP67
Load current	≤200mA	Certification	CE
Voltage drop	≤1V	Material	Housing: Nickel copper alloy；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: 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;
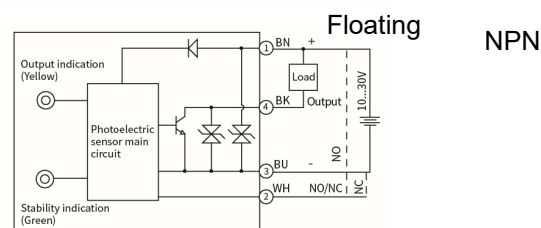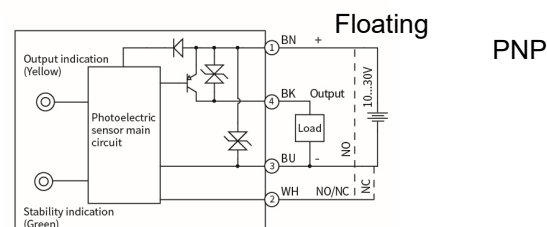
Dimensions

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

42.7

36

26

M18×1

5.8

Operation LED
Yellow

Receiver

Emitter

Power LED
Green

Circuit Diagrams

Emitter

Floating   NPN

Floating   PNP