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

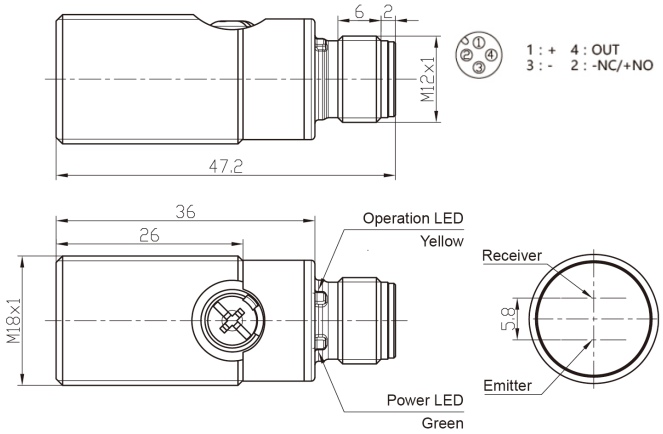
Model					
	Emitter	Receiver		Emitter	Receiver
NPN NO/NC	PSM-TM20D-E2	PSM-TM20DNB-E2	PNP NO/NC	PSM-TM20D-E2	PSM-TM20DPB-E2

Specifications			
Detection type	Through beam	Circuit protection	Short-circuit, overload, reverse polarity protection
Rated distance	20m	Connection	M12 4-core connector
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 ≤ 3,000lux
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	Feet 2 is connected to the positive pole or hang up, NO mode; Feet 2 is connected to the negative pole, NC mode		

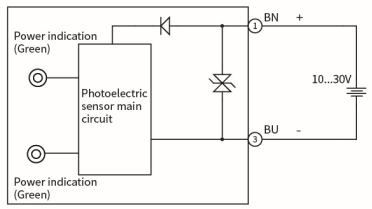
Remarks:①Detection object is 90% white card with size 20cm * 20cm;

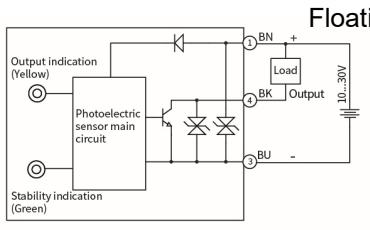
②The green LED becomes weaker, which means that the signal is weaker and the sensor is unstable; The yellow LED flashes, which means that the sensor is shorted or overloaded;

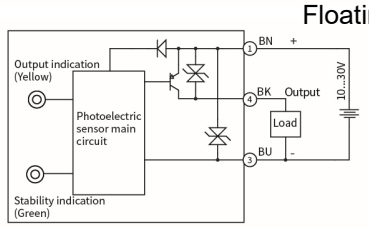
Dimensions



Circuit Diagrams







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CE

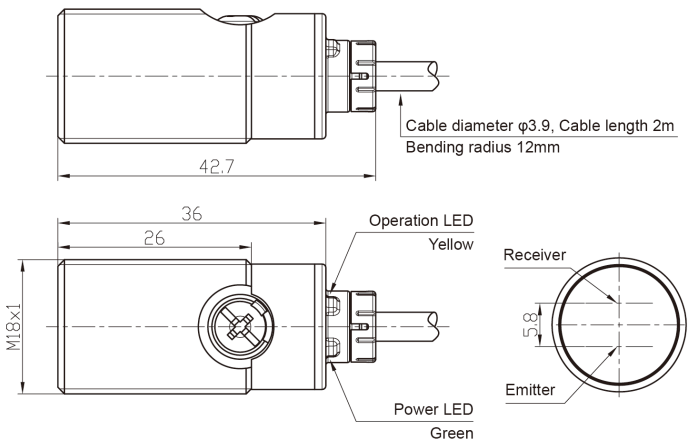
Model					
	Emitter	Receiver		Emitter	Receiver
NPN NO/NC	PSM-TM20D	PSM-TM20DNB	PNP NO/NC	PSM-TM20D	PSM-TM20DPB

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



Circuit Diagrams