

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;



Model					
	Emitter		Receiver		
NPN NO/NC	PSS-TM20D-E2	PSS-TM20DNB-E2	PNP NO/NC	PSS-TM20D-E2	PSS-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	> ϕ 15mm opaque object		Yellow LED: output, short circuit or overload
Output	NPN NO/NC or PNP NO/NC	Anti-ambient light	Anti-sunlight interference \leq 10,000lux;
Response time	\leq 1ms		Incandescent light interference \leq 3,000lux
Direction angle	> 4°	Operating temperature	-25...55 °C
Supply voltage	10...30 VDC	Storage temperature	-35...70 °C
Consumption current	Emitter: \leq 20mA ; Receiver: \leq 20mA	Protection degree	IP67
Load current	\leq 200mA	Certification	CE
Voltage drop	\leq 1V	Material	Housing: PC+ABS; Filter: PMMA
Distance adjustment	Single-turn potentiometer	Annex	M18 nut (4CS), 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: 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
<p>1: + 4: OUT 3: - 2: -NC/+NO</p>	<p>Emitter</p> <p>Floating NPN</p> <p>Floating PNP</p>

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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	> $\phi 15$ mm opaque object		Yellow LED: output, short circuit or overload		
Output	NPN NO/NC or PNP NO/NC	Anti-ambient light	Anti-sunlight interference $\leq 10,000$ lux;		
Response time	≤ 1 ms		Incandescent light interference $\leq 30,000$ lux		
Direction angle	> 4°	Operating temperature	-25...55 °C		
Supply voltage	10...30 VDC	Storage temperature	-25...70 °C		
Consumption current	Emitter: ≤ 20 mA ; Receiver: ≤ 20 mA	Protection degree	IP67		
Load current	≤ 200 mA	Certification	CE		
Voltage drop	≤ 1 V	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