# Plastic square shape photoelectric sensors PSE series



## Features

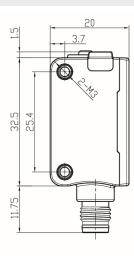
- Universal housing, an ideal replacement for a wide range of sensor types;
- IP67, suitable for harsh environments;
- Fast and stable setting;
- NO and NC are switchable;

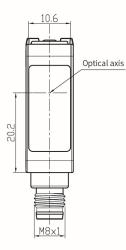


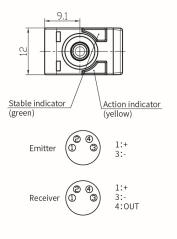
Model					
	Emitter	Receiver		Emitter	Receiver
NPN NO/NC	PSE-TM20D-E3	PSE-TM20DNB-E3	PNP NO/NC	PSE-TM20D-E3	PSE-TM20DPB-E3
Specifications					
Detection type	Through beam		Indicator	Green light: power, stable signal (unstable signal flash)	
Rated distance	20m			Yellow light: output, overload or short circuit (flash)	
Output	NPN NO/NC or PNP NO/NC		Anti-ambient light	Anti-sunlight interference ≥ 10,000lux;	
Response time	≤1ms			Incandescent light interference ≥ 3,000lux	
Sensing object	≥ $\Phi$ 10mm opaque object (within Sn range)		Operating temperature	-25°C55°C	
Direction angle	>2°		Storage temperature	-25°C70°C	
Supply voltage	1030 VDC		Protection degree	IP67	
Consumption current	Emitter: ≤20mA; Receiver: ≤20mA		Certification	CE	
Load current	≤200mA		Production standard	EN60947-5-2:2012、IEC60947-5-2:2012	
Voltage drop	≤1V		Material	Housing: PC+ABS; Filter: PMMA	
Light source	Infrared (850nm)		Weight	10g	
Circuit protection	Short-circuit, overload, reverse polarity and		Connection	M8 connector	
	zener protection				
NO/NC adjustment	Press the button for 58s, when the yellow and green light flash synchronously at 2Hz, and lift. Finish state switch.				
Distance adjustment	Press the button for 25s, when the yellow and green light flash synchronously at 4Hz, and lift to finish the distance setting.				

If the yellow and green light flash asynchronously @8Hz for 3s, setting fails and the product distance goes to the maximum.

#### Dimensions







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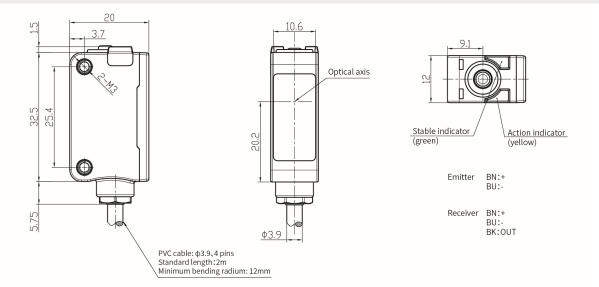


Model							
	Emitter	Receiver		Emitter	Receiver		
NPN NO/NC	PSE-TM20D	PSE-TM20DNB	PNP NO/NC	PSE-TM20D	PSE-TM20DPB		

#### Specifications

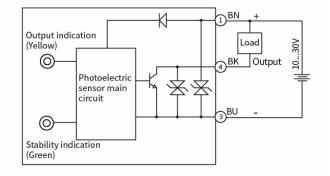
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Detection type	Through beam	Indicator	Green light: power, stable signal (unstable signal flash)			
Rated distance	20m		Yellow light: output, overload or short circuit (flash)			
Output	NPN NO/NC or PNP NO/NC	Anti-ambient light	Anti-sunlight interference $\geq$ 10,000lux;			
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Sensing object	≥ $\Phi$ 10mm opaque object (within Sn range)	Operating temperature	-25℃55℃			
Direction angle	>2°	Storage temperature	-25℃70℃			
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Consumption current	Emitter: ≤20mA; Receiver: ≤20mA	Certification	CE			
Load current	≤200mA	Production standard	EN60947-5-2:2012、IEC60947-5-2:2012			
Voltage drop	≤1V	Material	Housing: PC+ABS; Filter: PMMA			
Light source	Infrared (850nm)	Weight	50g			
Circuit protection	Short-circuit, overload, reverse polarity and	Connection	2m PVC cable			
	zener protection					
NO/NC adjustment	Press the button for 58s, when the yellow and green light flash synchronously at 2Hz, and lift. Finish state switch.					
Distance adjustment	Press the button for 25s, when the yellow and green light flash synchronously at 4Hz, and lift to finish the distance setting.					
	If the yellow and green light flash asynchronously @8Hz for 3s, setting fails and the product distance goes to the maximum.					

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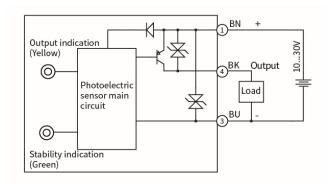




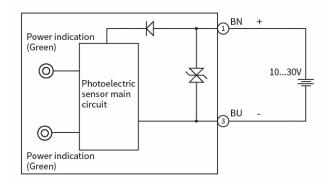
## Circuit Diagrams







PNP



Emitter