

## 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;
- Visible light spots for easy installation and commissioning.



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E	Emitter	Receiver		Emitter	Receiver
NPN NO/NC P	PSE-TM5DR-E3	PSE-TM5DNBR-E3	PNP NO/NC	PSE-TM5DR-E3	PSE-TM5DPBR-E3
Specifications					
Detection type T	Through beam		Indicator	Green light: power, stable signal (unstable signal flash)	
Rated distance 5	5m			Yellow light: output, overload or short circuit (flash)	
Output N	NPN NO/NC or PNP NO/NC		Anti-ambient light	Anti-sunlight interference $\leq$ 10,000lux;	
Response time ≤	≤1ms			Incandescent light interference ≤ 3,000lux	
Sensing object ≥	$\geq \Phi 10$ mm opaque object (within Sn range)		Operating temperature	-25°C55 °C	
Direction angle <	< ±2°		Storage temperature	-25°C70 °C	
Supply voltage 1	1030 VDC		Protection degree	IP67	
Consumption current E	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 R	Red light (640nm)		Weight	10g	
Circuit protection S	Short-circuit, overload, reverse polarity and		Connection	M8 connector	
Z	zener protection				

NO/NC adjustment Press the button for 5...8s, when the yellow and green light flash synchronously at 2Hz, and lift. Finish state switch.

Distance adjustment Press the button for 2...5s, 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











## **Circuit Diagrams**







PNP



Emitter



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