Plastic square shape photoelectric sensors PSE series

Features

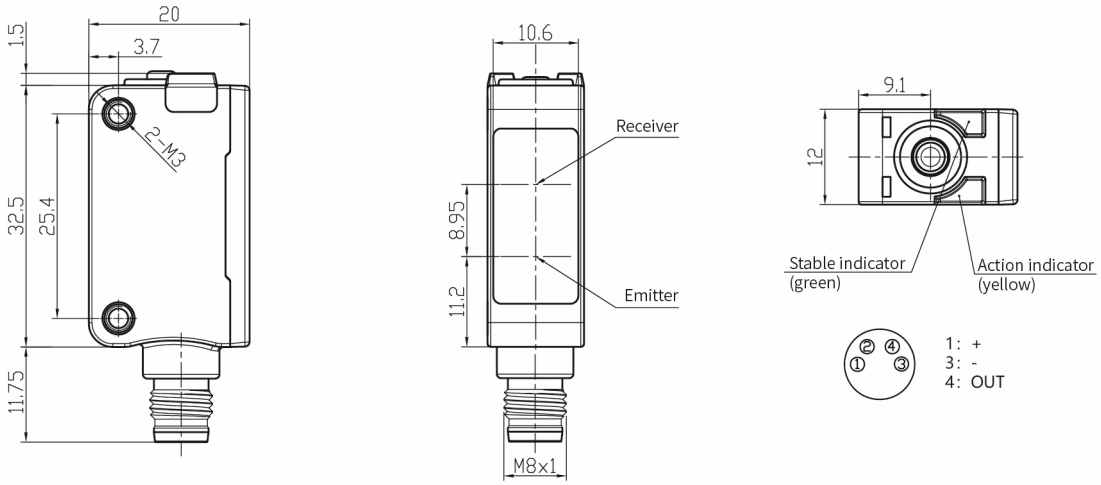
- Universal housing, an ideal replacement for a wide range of sensor types;
- IP67, suitable for harsh environments;
- One-click distance setting, accurate and fast;
- Suitable for the detection of high light objects and some trans-parent objects;
- NO and NC are switchable.

Model			
NPN NO/NC	PSE-PM3DNBR-E3	PNP NO/NC	PSE-PM3DPBR-E3

Specifications			
Detection type	Polarized reflection	Material	Housing: PC+ABS； Filter: PMMA
Rated distance	0.15-3m*	Indicator	Green light: power, stable signal (unstable signal flash)
Output	NPN NO/NC or PNP NO/NC		Yellow light: output, overload or short circuit (flash)
Response time	T-on≤0.5ms,T-off≤0.5ms	Anti-ambient light	Anti-sunlight interference ≤ 10,000lux;
Supply voltage	10...30 VDC		Incandescent light interference ≤ 3,000lux
Consumption current	≤25mA	Operating temperature	-25ºC...55 ºC
Load current	≤100mA	Storage temperature	-25ºC...70 ºC
Voltage drop	≤1V	Protection degree	IP67
Light source	Red light(640nm)	Production standard	EN60947-5-2:2012、IEC60947-5-2:2012
Blind zone	<15cm	Weight	10g
Circuit protection	Short-circuit, overload, reverse polarity and	Connection	M8 connector
	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.		

*The data is the result for Lanbao PSE polarized reflection sensor with standard reflector TD-09.

Dimensions



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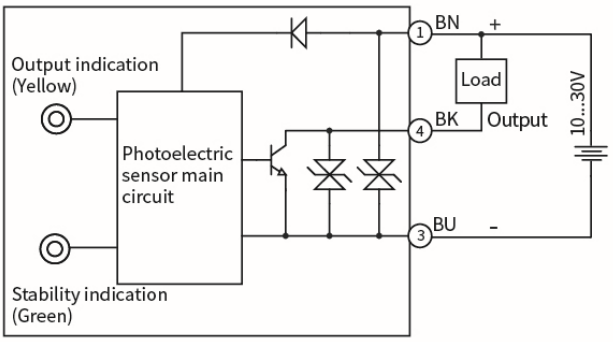
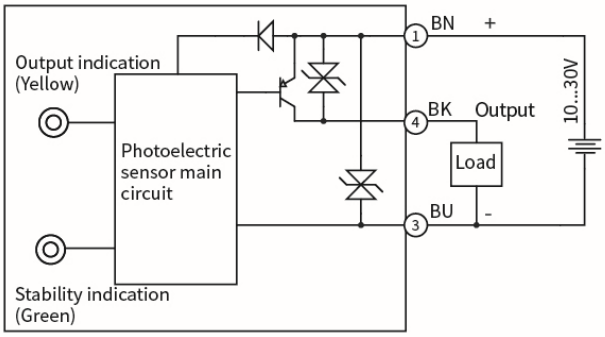
Circuit Diagrams



NPN



PNP

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