Plastic square shape photoelectric sensors PSE series
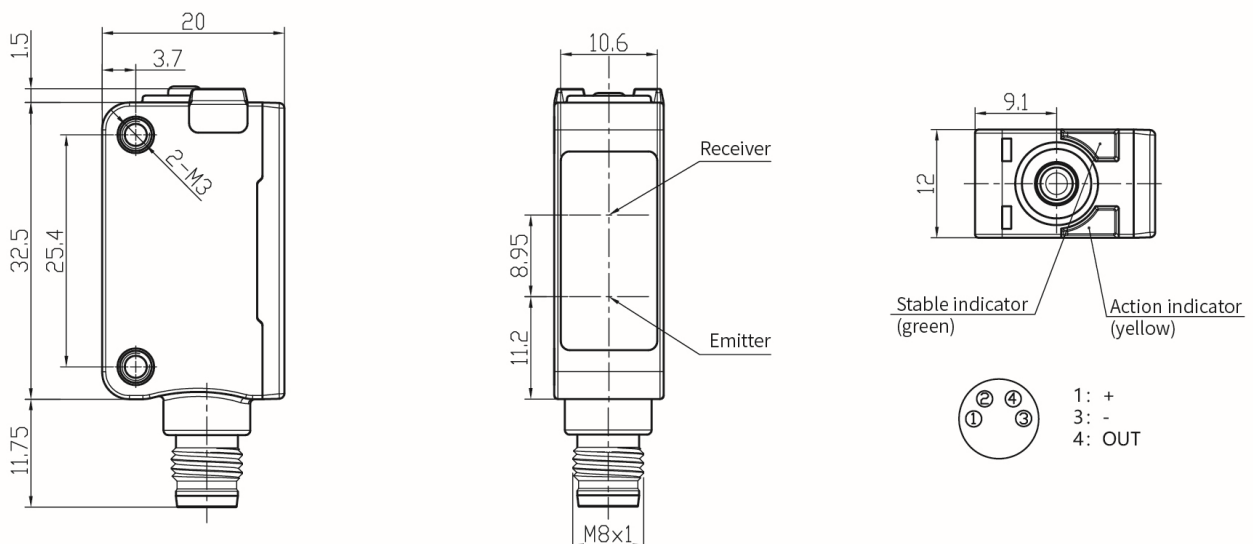
Features

- Universal housing, an ideal replacement for a wide range of sensor types;
- IP67, suitable for harsh environments;
- One-click distance setting, accurate and fast;
- Small detection dead zone, suitable for the detection of high light objects.

CE

Model

NPN NO/NC	PSE-BC10DNB-E3	PNP NO/NC	PSE-BC10DPB-E3

Specifications

Detection type	Diffuse reflection (Wide-angle)	Indicator	Green light: power, stable signal (unstable signal flash)
Sensing distance	10cm		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
Supply voltage	10...30 VDC	Operating temperature	-25ºC...55 ºC
Consumption current	≤25mA	Storage temperature	-25ºC...70 ºC
Load current	≤200mA	Protection degree	IP67
Hysteresis range	3...20%	Certification	CE
Voltage drop	≤1V	Production standard	EN60947-5-2:2012、IEC60947-5-2:2012
Light source	Infrared (860nm)	Material	Housing: PC+ABS；Filter: PMMA
Protection circuit	Short-circuit, overload, reverse polarity and	Weight	10g
	zener protection	Connection	M8 connector
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

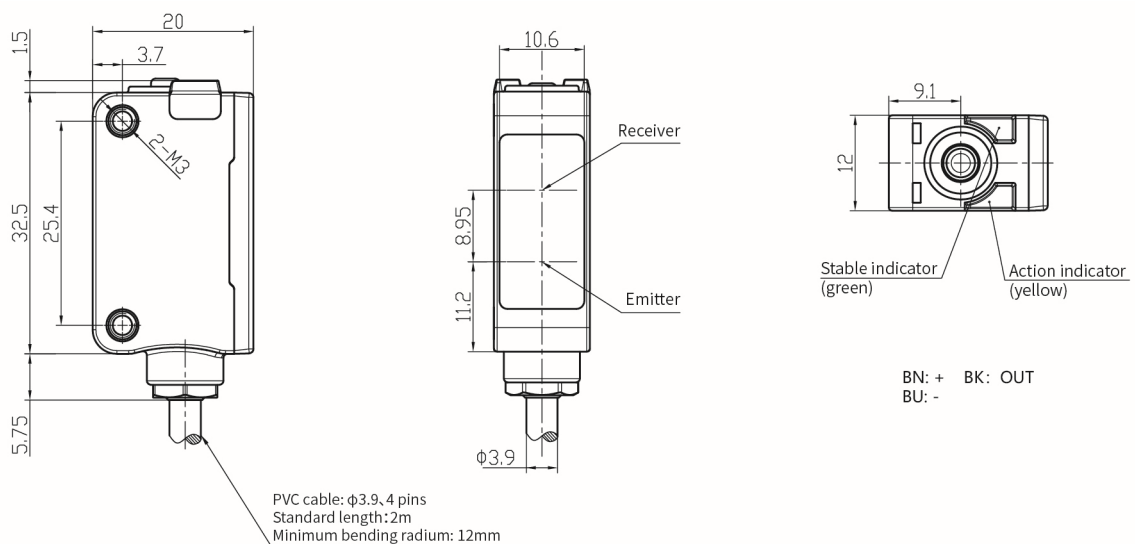# Plastic square shape photoelectric sensors PSE series

Features

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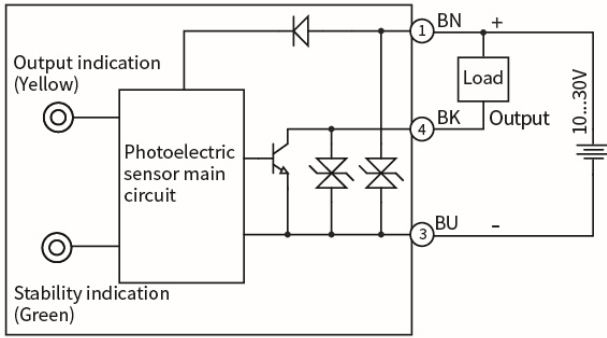- Small detection dead zone, suitable for the detection of high light objects.

CE

Model

NPN NO/NC	PSE-BC10DNB	PNP NO/NC	PSE-BC10DPB

Specifications

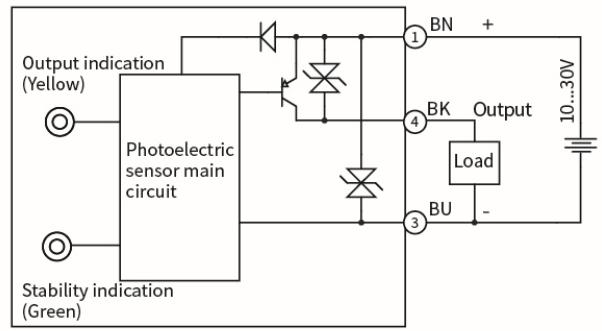|			
Detection type	Diffuse reflection (Wide-angle)	Indicator	Green light: power, stable signal (unstable signal flash)
Rated distance	10cm		Yellow light: output, overload or short circuit (flash)
Output	NPN NO/NC or PNP NO/NC	Anti-ambient light	Anti-sunlight interference ≥ 10,000lux;
Response time	≤1ms		Incandescent light interference ≥ 3,000lux
Supply voltage	10...30 VDC	Operating temperature	-25ºC...55 ºC
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Hysteresis range	3...20%	Certification	CE
Voltage drop	≤1V	Production standard	EN60947-5-2:2012、IEC60947-5-2:2012
Light source	Infrared (860nm)	Material	Housing: PC+ABS；Filter: PMMA
Circuit protection	Short-circuit, overload, reverse polarity and	Weight	50g
	zener protection	Connection	2m PVC cable
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

PVC cable: φ3.9、4 pins
Standard length：2m
Minimum bending radium: 12mm

Receiver

Emitter

Stable indicator (green)

Action indicator (yellow)

BN: + BK: OUT
BU: -

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Circuit Diagrams

NPN

PNP