

## Plastic square photoelectric sensor **PSE** series



### Features

- Universal housing, an ideal replacement for a variety of sensors.
- Conform to IP67 and is suitable for harsh environments.
- Distance can be set by knob, setting accurate and fast.
- Background suppression, whether white or black objects can be stably detected.
- Laser light source, small visible spot, easy to install and debug.



### Part number

NPN NO+NC	PSE-YC35DNRL-E3	PNP NO+NC	PSE-YC35DPRL-E3
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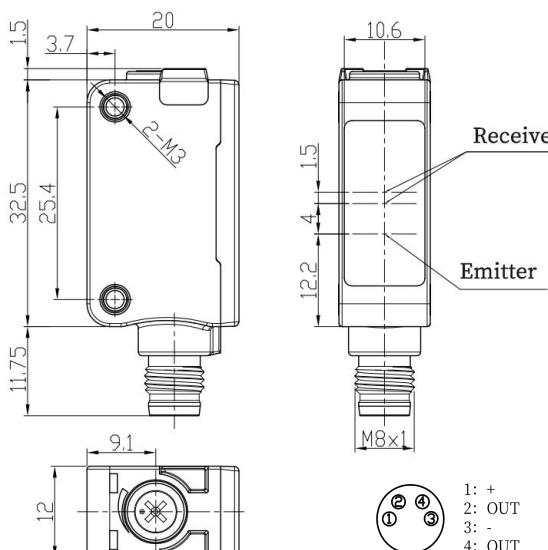
### Technical specifications

Detection method	Background suppression	Circuit protection	Short circuit protection, overload protection, reverse polarity protection, zener protection
Detection distance	35cm	Indicator	Green light:power, stable signal
Output type	NPN NO+NC Or PNP NO+NC		Yellow light:output, overload or short circuit(flicker)
Distance adjustment	Multi-turn knobadjustment		
Light spot size	≤2mm@35cm	Anti ambient light	Anti-sunlight interference ≤10,000lux;
NO/NC adjustment	Black line NO, white line NC		Incandescent light interference ≤3,000lux
Supply voltage	10...30VDC, ripple≤10%VP-P	Operating temperature	-10°C...50°C(nofrostorcondensationonopticalsurfaces)
Consumption current	≤20mA	Storage temperature	-40°C...70°C(nofrostorcondensationonopticalsurfaces)
Load current	≤100mA	Protection degree	IP67
Voltage drop	≤1.5V	Certification	CE
Light source	Red laser(650nm) Class1	Production standard	EN60947-5-2:2012、IEC60947-5-2:2012
Response time	≤1ms	Material	Housing:PC+ABS; Optical elements:Plastic PMMA
Hysteresis range	<5%	Weight	10g
Dead zone	< 10mm*	Connection	M8 4-pin connector

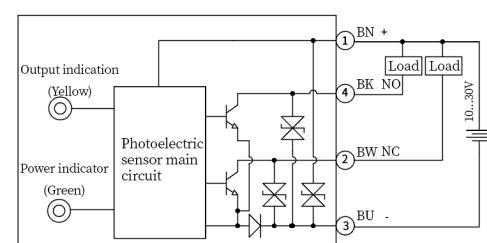
\*Dead zone of 90% reflectivity white card<2mm, dead zone of 6% reflectivity black card<5mm.

When using the product, if there is side-by-side installation, please keep the interval between two adjacent sensors>5cm; at the same time, avoid opposite installation, please use staggered.

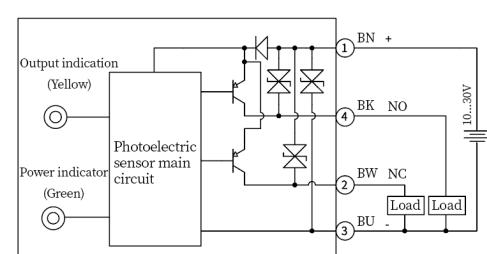
### Dimensions



### Wiring diagram



NPN



PNP