

Plastic square photoelectric sensor PSE series



Features

- Laser light source, long distance
- Ultra-small light spot, accurate positioning
- Universal dimension
- IP67 protection grade, suitable for harsh environments



Part number

NPN NO+NC	PSE-YC35DNRL-E3	PNP NO+NC	PSE-YC35DPRL-E3
-----------	-----------------	-----------	-----------------

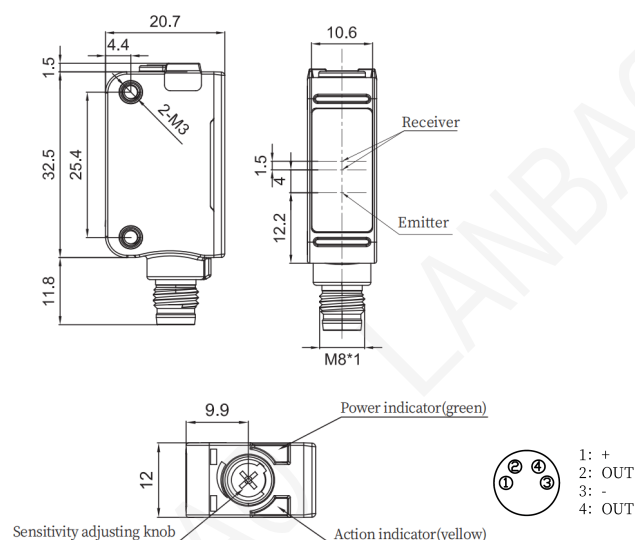
Technical specifications

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 Yellow light:output, overload or short circuit(flash)
Output type	NPN NO+NC Or PNP NO+NC	Anti ambient light	Anti-sunlight interference $\leq 10,000\text{lux}$; Incandescent light interference $\leq 3,000\text{lux}$
Distance adjustment	Multi-turn knobadjustment	Operating temperature	$-10^{\circ}\text{C} \dots 50^{\circ}\text{C}$ (no frost or condensation on lens surfaces)
Light spot size	$\leq 2\text{mm}@35\text{cm}$	Storage temperature	$-40^{\circ}\text{C} \dots 70^{\circ}\text{C}$ (no frost or condensation on lens surfaces)
NO/NC adjustment	Black wire NO, white wire NC	Protection degree	IP67
Supply voltage	10...30VDC, Ripple $\leq 10\%$ VP-P	Production standard	EN60947-5-2:2012、IEC60947-5-2:2012
Consumption current	$\leq 20\text{mA}$	Material	Housing:PC+ABS; Optical elements:Plastic PMMA
Load current	$\leq 100\text{mA}$	Weight	10g
Voltage drop	$\leq 1.5\text{V}$	Connection	M8 4-pin connector
Light source	Red laser(650nm) Class1		
Response time	T-on: $\leq 0.5\text{ms}$; T-off: $\leq 0.5\text{ms}$		
Hysteresis range	$< 5\%$		
Blind zone	$< 10\text{mm}^*$		

*Blind zone of white card with 90% reflectivity is $< 2\text{mm}$; Blind zone of black card with 6% reflectivity is $< 5\text{mm}$.

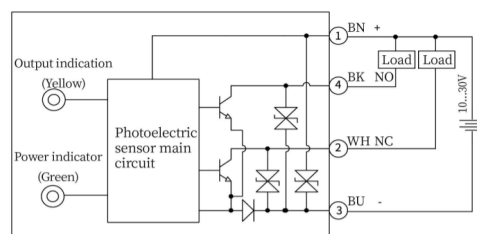
When using the product, if there is side-by-side installation, please keep the interval between two adjacent sensors $> 5\text{cm}$; at the same time, avoid opposite installation, please use staggered.

Dimensions



Wiring diagram

NPN



PNP

