

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

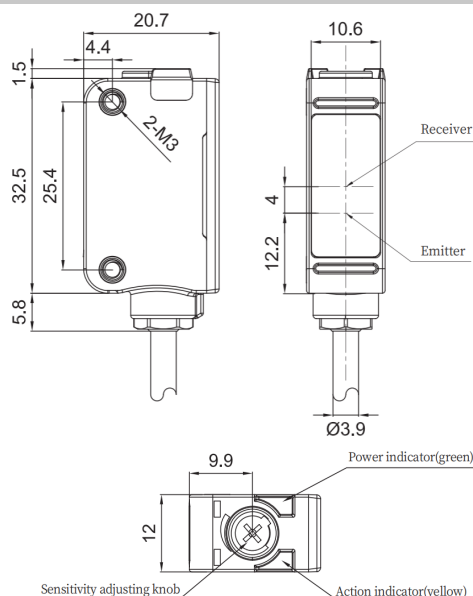
NPN NO+NC	PSE-PM12DNRL	PNP NO+NC	PSE-PM12DPRL
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Technical specifications

Detection method	Polarized reflection	Circuit protection	Short circuit protection, overload protection, reverse polarity protection, zener protection
Rated distance	2...12m	Indicator	Green light: power indicator 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	Knob adjustment	Operating temperature	$-10^{\circ}\text{C} \dots 50^{\circ}\text{C}$ (no frost or condensation on lens surfaces)
Light spot size	24mm@12m(Main Light spot)	Storage temperature	$-40^{\circ}\text{C} \dots 70^{\circ}\text{C}$
Output state	Black wire NO, white wire NC	Humidity range	35%~85% (no frost or condensation on lens surfaces)
Supply voltage	10...30 VDC, Ripple $<10\%$ Vp-p	Protection degree	IP67
Consumption current	$\leq 20\text{mA}$	Production standard	EN60947-5-2:2012, IEC60947-5-2:2012
Load current	$\leq 100\text{mA}$	Material	Housing: PC+ABS; Optical elements: Plastic PMMA
Voltage drop	$\leq 1.5\text{V}$	Weight	50g
Light source	Red laser(650nm) Class1	Connection	2m PVC cable
Response time	T-on: $\leq 0.5\text{ms}$; T-off: $\leq 0.5\text{ms}$		
Response frequency	$\leq 1000\text{Hz}$		
Blind zone	$<20\text{cm}$		
Min target	$\geq \varnothing 3\text{mm}@0\sim 2\text{m}$, $\geq \varnothing 6\text{mm}@2\sim 10\text{m}$		

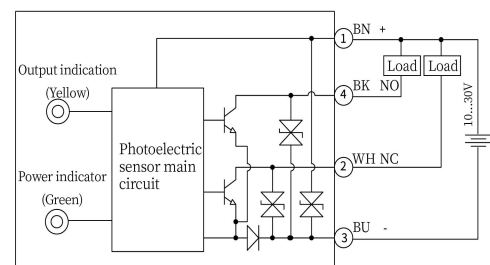
*Equipped with TD-09A reflector, the recommended installation distance is 2-12m.

Dimensions



Wiring diagram

NPN



PNP

