

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

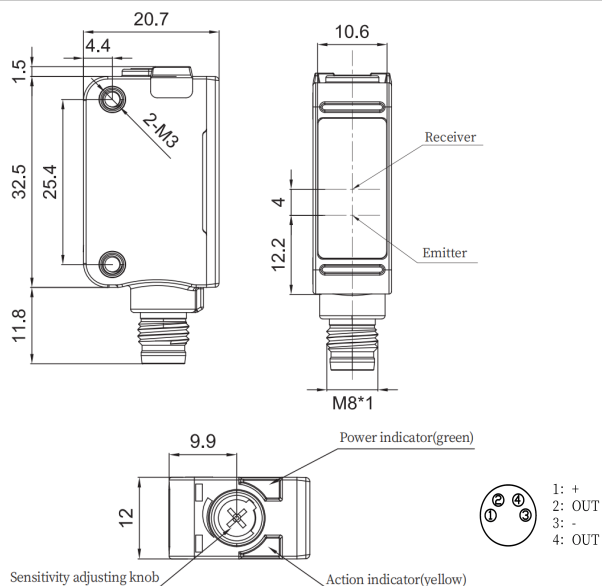
NPN NO+NC	PSE-PM12DNRL-E3	PNP NO+NC	PSE-PM12DPRL-E3
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Technical specifications

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 ≤10,000lux; Incandescent light interference ≤3,000lux
Distance adjustment	Knob adjustment	Operating temperature	-10°C ...50°C (no frost or condensation on lens surfaces)
Light spot size	24mm@12m(Main Light spot)	Storage temperature	-40°C ...70°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	≤20mA	Production standard	EN60947-5-2:2012、IEC60947-5-2:2012
Load current	≤100mA	Material	Housing: PC+ABS; Optical elements: Plastic PMMA
Voltage drop	≤1.5V	Weight	10g
Light source	Red laser(650nm) Class1	Connection	M8 4-pin connector
Response time	T-on: ≤0.5ms; T-off: ≤0.5ms		
Response frequency	≤1000Hz		
Blind zone	<20cm		
Min target	≥φ3mm@0~2m, ≥φ6mm@2~10m		

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

Dimensions



Wiring diagram

