

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.
- Sensitivity can be set by one key, accurate and fast. High detection accuracy and stable performance.
- Laser spot, high positioning accuracy.
- NO/NC switchable.



Part number

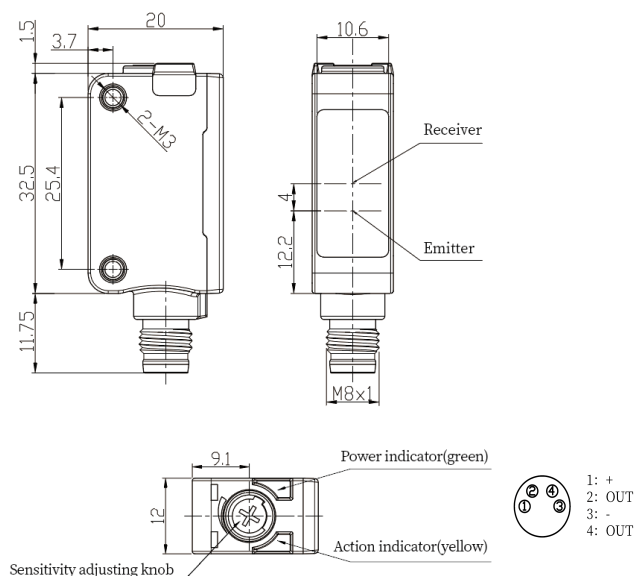
NPN NO+NC	PSE-PM10DNRL-E3	PNP NO+NC	PSE-PM10DPRL-E3
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Technical specifications

Detection method	Polarized reflection	Circuit protection	Short circuit protection, overload protection, reverse polarity protection, zener protection
Rated distance	10m	Indicator	Green light: power indicator Yellow light: output, overload or short circuit(flicker)
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 icing, no condensation)
Light spot size	20mm@10m(Main Light spot)	Storage temperature	$-40^{\circ}\text{C} \dots 70^{\circ}\text{C}$
Output state	Black line NO, white line NC	Humidity range	35%~85% (no icing, no condensation)
Supply voltage	10...30 VDC, Ripple $<10\%$ Vp-p	Protection degree	IP67
Consumption current	$\leq 20\text{mA}$	Certification	CE
Load current	$\leq 100\text{mA}$	Production standard	EN60947-5-2:2012、IEC60947-5-2:2012
Voltage drop	$\leq 1.5\text{V}$	Material	Housing: PC+ABS; Optical elements: Plastic PMMA
Light source	Red laser(650nm) Class1	Weight	10g
Response time	T-on: $\leq 0.5\text{ms}$; T-off: $\leq 0.5\text{ms}$	Connection	M8 4-pin connector
Response frequency	$\leq 1000\text{Hz}$		
Dead zone	$<20\text{cm}$		
Smallest detector	$\geq \phi 3\text{mm}@0\sim 2\text{m}$, $\geq \phi 6\text{mm}@2\sim 10\text{m}$		

*TD-09 Reflector need to buy separately

Dimensions



Wiring diagram

