

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



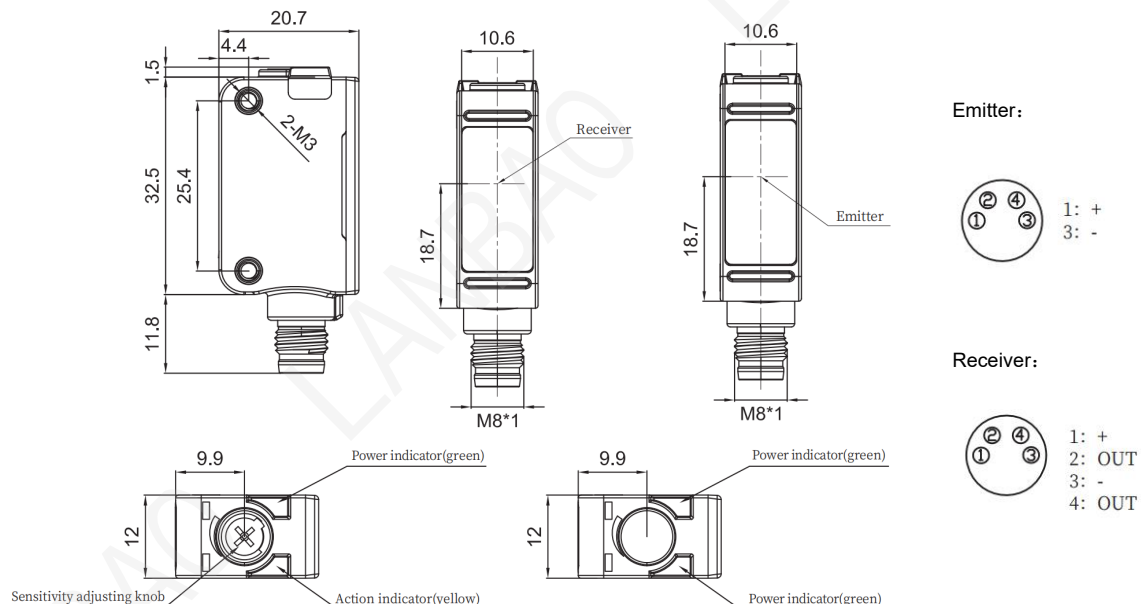
Part number

		Emitter	Receiver			Emitter	Receiver
NPN	NO+NC	PSE-TM30DL-E3	PSE-TM30DNRL-E3	PNP	NO/NC	PSE-TM30DL-E3	PSE-TM30DPRL-E3

Technical specifications

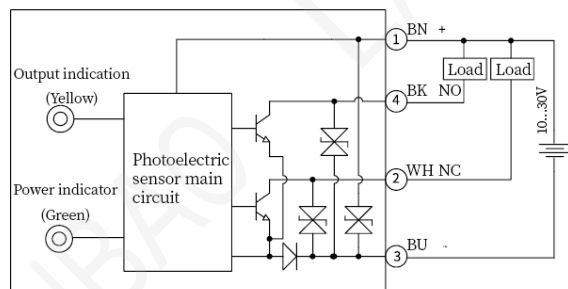
Detection method	Through beam	Response time	T-on: ≤0.5ms; T-off: ≤0.5ms
Rated distance	30m	Indicator	Green light: power indicator
Output type	NPN NO+NC Or PNP NO+NC		Yellow light: output, overload or short circuit(flash)
Distance adjustment	Knob adjustment	Anti ambient light	Anti-sunlight interference ≤10,000lux; Incandescent light interference ≤3,000lux
Light spot size	36mm@30m(Main Light spot)	Operating temperature	-10°C...50°C(no frost or condensation on lens surfaces)
Output state	Black wire NO, white wire NC	Storage temperature	-40°C ...70°C
Supply voltage	10...30 VDC, Ripple<10%Vp-p	Humidity range	35%~85%(no frost or condensation on lens surfaces)
Consumption current	Emitter: ≤20mA; Receiver: ≤20mA	Protection degree	IP67
Load current	≤100mA	Production standard	EN60947-5-2:2012、IEC60947-5-2:2012
Voltage drop	≤1.5V	Material	Housing: PC+ABS; Optical elements: Plastic PMMA
Light source	Red laser(650nm) Class1	Weight	10g
Min target	≥ Φ3mm@0~2m, ≥ Φ15mm@2~30m	Connection	M8 4-pin connector
Circuit protection	Short circuit protection, overload protection, reverse polarity protection, zener protection		

Dimensions

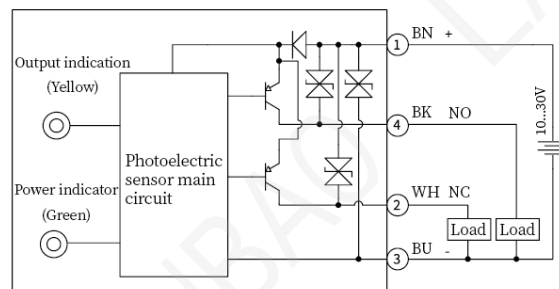


Wiring diagram

Receiver- NPN



Receiver- PNP



Emitter

