

Plastic square shape photoelectric sensors PSR series



Features

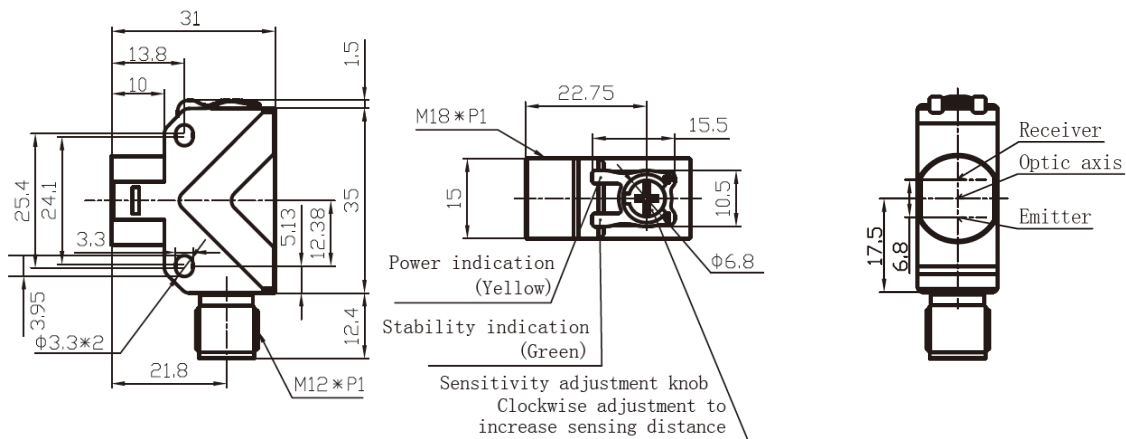
- ◆ 18mm threaded cylindrical installation or side installation, it is an ideal substitute for various styles of sensors;
- ◆ Unique optical design can realize stable detection of bright objects;
- ◆ With 360° visible bright LED status indicator;
- ◆ Visible light spot, easy to install and debug.



Part number

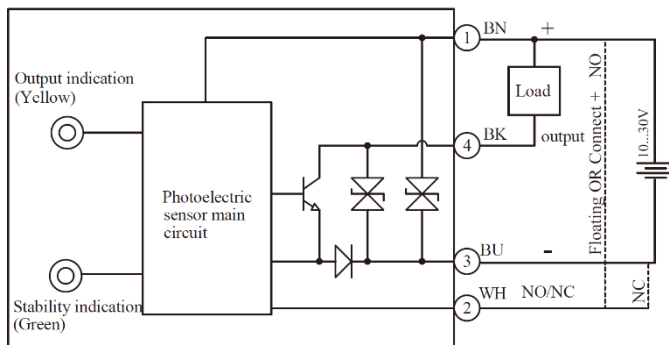
NPN	PSR-PM3DNBR-E2	PNP	PSR-PM3DPBR-E2
Technical specifications			
Detection type	Polarized reflection	Anti-ambient light	Anti-ambient light interference < 10,000lx; Incandescent light interference < 3,000lx
Rated distance [Sn]	0...3m	Indicator display	Green light: power indication, stable indication (blinking means unstable signal) Yellow light: output indication, short circuit or overload indication (flashing)
Light source	Red LED (660nm)	Ambient humidity	35...95%RH (non-condensing)
Light spot	180*180mm@3m	Voltage withstand	1000V/AC 50/60Hz 60s
Output	NO/NC	Insulation resistance	≥50MΩ (500VDC)
Supply voltage	10...30VDC	Vibration resistance	10...50Hz (0.5mm)
Load current	≤100mA	Degree of protection	IP67
Residual voltage	≤1V	Housing material	ABS
Distance adjustment	Single-turn potentiometer	Installation method	Composite installation
Consumption current	≤20mA	Optical components	Plastic PMMA
Circuit protection	Short-circuit, overload, reverse polarity and zener protection	Weight	10g
Response time	≤1ms	Connection type	M12 connector
Ambient temperature	-15°C...60°C		
NO/NC adjustment	NO: 2 feet is connected to the positive electrode; NC: 2 feet is connected to the negative electrode;		

Dimensions



Wiring diagram

NPN



PNP

