

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;
- ◆ Compliant with IP67, suitable for harsh environments;
- ◆ With 360° visible bright LED status indicator;
- ◆ Visible light spot, easy to install and debug.



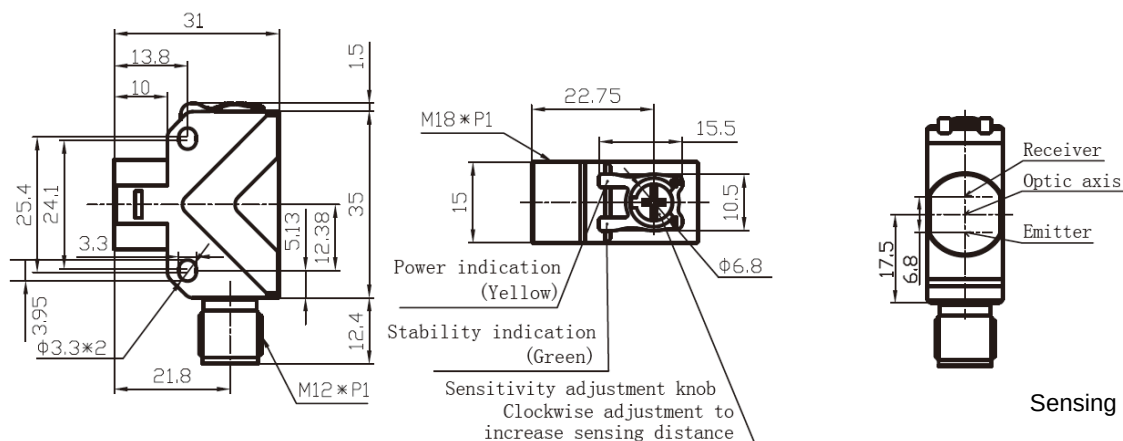
Part number

NPN	PSR-BC30DNBR-E2	PNP	PSR-BC30DPBR-E2
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Technical specifications

Detection type	Diffuse reflection	Anti-ambient light	Anti-ambient light interference < 10,000lx; Incandescent light interference < 3,000lx
Rated distance [Sn]	5...300mm	Indicator display	Green light: power indication, stable indication (blinking means unstable signal)
Light source	Red LED (660nm)		Yellow light: output indication, short circuit or overload indication (flashing)
Light spot	18*18mm@30cm		
Output	NO/NC		
Hysteresis range [%/Sr]	3...20%	Ambient temperature	-15°C...60°C
Supply voltage	10...30VDC	Ambient humidity	35...95%RH (non-condensing)
Load current	≤100mA	Voltage withstand	1000V/AC 50/60Hz 60s
Residual voltage	≤1V	Insulation resistance	≥50MΩ(500VDC)
Distance adjustment	Single-turn potentiometer	Vibration resistance	10...50Hz (0.5mm)
Consumption current	≤20mA	Degree of protection	IP67
Circuit protection	Short-circuit, overload, reverse polarity and zener protection	Housing material	ABS
Response time	≤1ms	Installation method	Composite installation
NO/NC adjustment	NO: 2 feet is connected to the positive electrode;	Optical components	Plastic PMMA
	NC: 2 feet is connected to the negative electrode;	Weight	10g
		Connection type	M12 connector

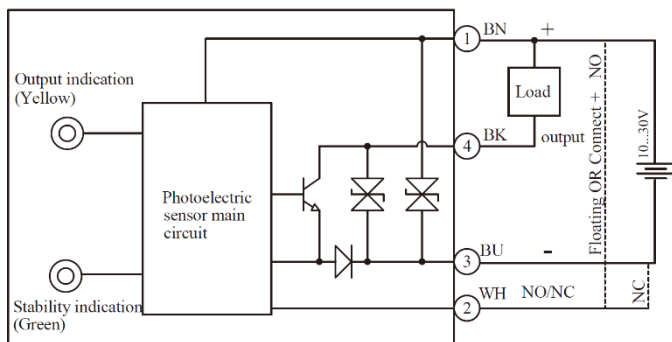
Dimensions



Sensing the dream

Wiring diagram

NPN



PNP

