

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;
- ◆ Large angle, long distance, easy to install and debug;
- ◆ With 360° visible bright LED status indicator;



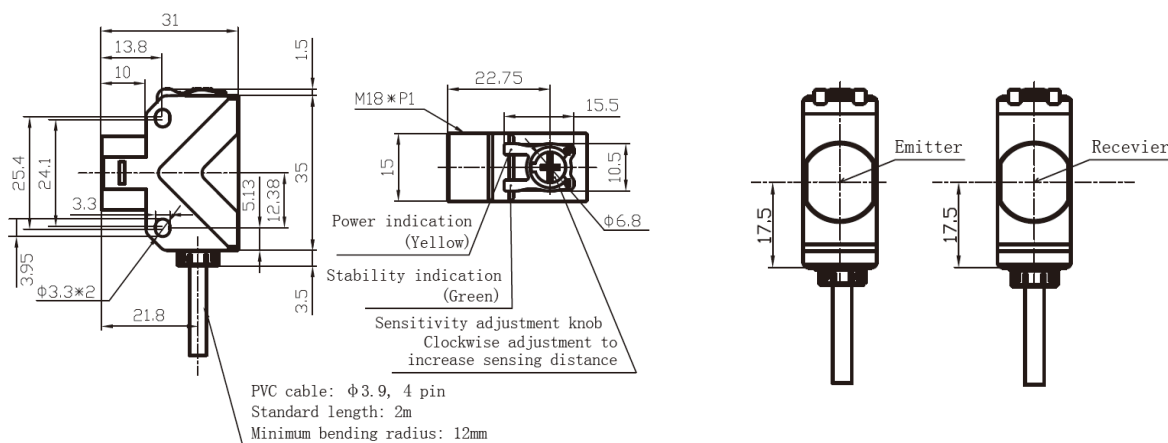
Part number

	Emitter	Receiver		Emitter	Receiver
NPN	PSR-TM20D	PSR-TM20DNB	PNP	PSR-TM20D	PSR-TM20DPB

Technical specifications

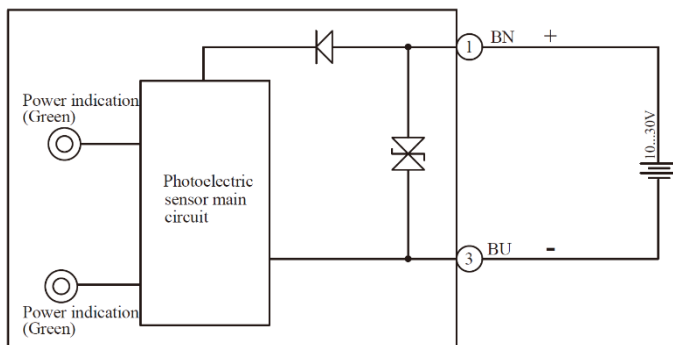
Detection type	Through beam	Anti-ambient light	Anti-ambient light interference < 10,000lx; Incandescent light interference < 3,000lx
Rated distance [Sn]	0.3...20m	Indicator display	Green light: power indicator Yellow light: output indication, short circuit or overload indication (flashing)
Standard target	> Φ15mm opaque object	Ambient temperature	-15°C...60°C
Light source	Infrared LED (850nm)	Ambient humidity	35-95%RH (non-condensing)
Direction angle	> 4°	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 (Receiver)	Housing material	ABS
Distance adjustment	Single-turn potentiometer	Installation method	Composite installation
Consumption current	≤15mA (Emitter), ≤18mA (Receiver)	Optical components	Plastic PMMA
Circuit protection	Short-circuit, overload, reverse polarity and zener protection	Weight	52g
Response time	≤1ms	Connection type	2m PVC cable
NO/NC adjustment	NO: white line is connected to the positive electrode; NC: white line is connected to the negative electrode;		

Dimensions

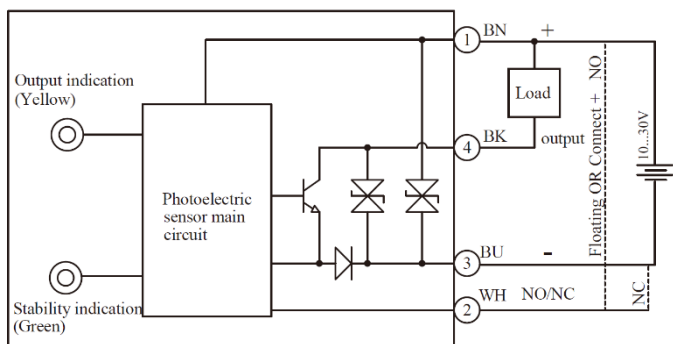


Wiring diagram

Emitter



NPN



PNP

