

- ◆ 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;



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

Detection type	Through beam	Anti-ambient light	Anti-ambient light interference < 10,000lx;
Rated distance [Sn]	0.3...20m		Incandescent light interference < 3,000lx
Standard target	> Φ15mm opaque object	Indicator display	Green light: power indicator
Light source	Infrared LED (850nm)		Yellow light: output indication, short circuit or
Direction angle	> 4°		overload indication (flashing)
Output	NO/NC	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 (Receiver)	Insulation resistance	≥50MΩ (500VDC)
Distance adjustment	Single-turn potentiometer	Vibration resistance	10...50Hz (0.5mm)
Consumption current	≤15mA (Emitter)、≤18mA (Receiver)	Degree of protection	IP67
Circuit protection	Short-circuit, overload, reverse polarity	Housing material	ABS
	and zener protection	Installation method	Composite installation
Response time	≤1ms	Optical components	Plastic PMMA
NO/NC adjustment	NO: white line is connected to the positive	Weight	52g
	electrode;	Connection type	2m PVC cable
	NC: white line is connected to the negative		
	electrode;		

Technical drawing of the PIR sensor module showing three views: a detailed side view with dimensions, a top view, and two perspective views labeled "Emitter" and "Receiver".

Dimensions (mm):

- Overall width: 31
- Top section width: 13.8
- Top section height: 10
- Bottom section height: 1.5
- Left side height: 25.4
- Left side height (lower): 24.1
- Left side width (lower): 6.3
- Right side height: 35
- Right side width: 51.3
- Right side width (lower): 12.38
- Bottom width: 3.5
- Bottom height: 21.8
- Bottom cable diameter: $\phi 3.3 \times 2$
- Top view width: 22.75
- Top view height: 15.5
- Top view height (lower): 10.5
- Top view diameter: $\phi 6.8$
- Top view hole diameter: M18 * P1
- Top view hole distance: 15

Labels:

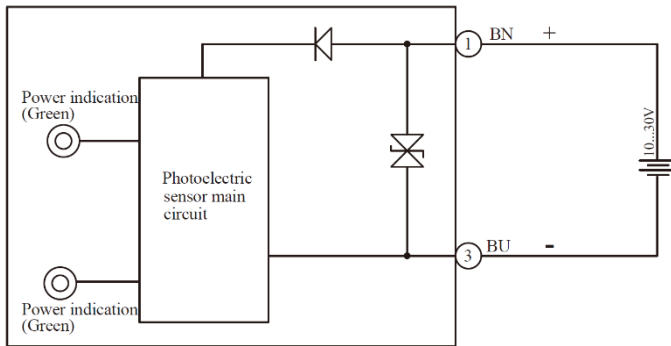
- Power indication (Yellow)
- Stability indication (Green)
- Sensitivity adjustment knob
- Clockwise adjustment to increase sensing distance
- Emitter
- Receiver

Specifications:

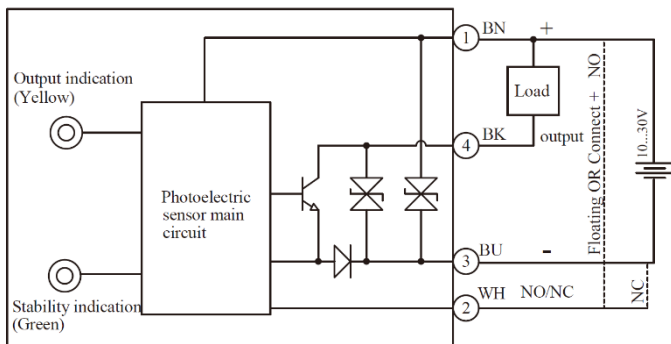
- PVC cable: $\phi 3.9$, 4 pin
- Standard length: 2m
- Minimum bending radius: 12mm

Wiring diagram

Emitter



NPN



PNP

