

# Plastic square shape photoelectric sensors PSR series



### **Features**

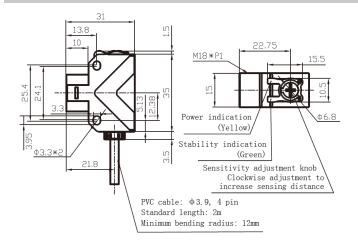
- ♦18mm threaded cylindrical installation or side installation, it is an ideal substitute for various styles of sensors;
- ◆Large angle, long distance, easy to install and debug;
- ◆With 360° visible bright LED status indicator;



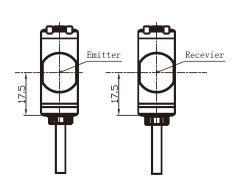


Part number					
	Emitter	Receiver		Emitter	Receiver
NPN	PSR-TM20D	PSR-TM20DNB	PNP	PSR-TM20D	PSR-TM20DPB
Technical specifications					
Detection type	Through beam		Anti-ambient light	Anti-ambient light interference < 10,000lx;	
Rated distance [Sn]	0.320m			Incandescent light interference < 3,000lx	
Standard target	> Ф15mm 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°C60°C	
Supply voltage	1030VDC		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	1050Hz (0.5mm)	
Consumption current	≤15mA (Emitter)、≤18mA (Receiver)		Degree of protection	IP67	
Circuit protection	cuit protection Short-circuit, overload, reverse polarity		Housing material	ABS	
	and zener protect	tion	Installation method	Composite installa	ation
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 o	connected to the negative			

### **Dimensions**



electrode;





## Wiring diagram

#### Emitter

