

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;
- ◆ Background suppression type, stable detection regardless of white or black detected objects;
- ◆ With 360° visible bright LED status indicator;
- ◆ Visible light spot, easy to install and debug.



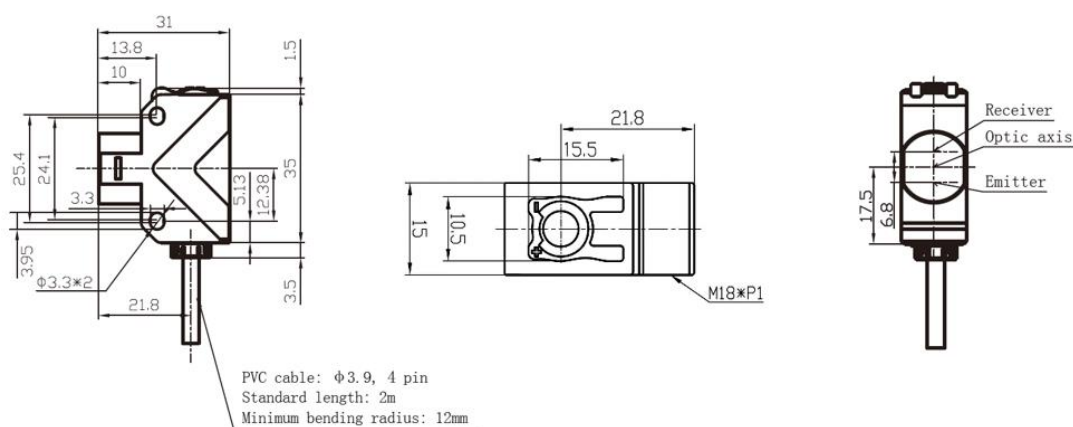
Part number

NPN	PSR-YC10DNBR	PNP	PSR-YC10DPBR
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Technical specifications

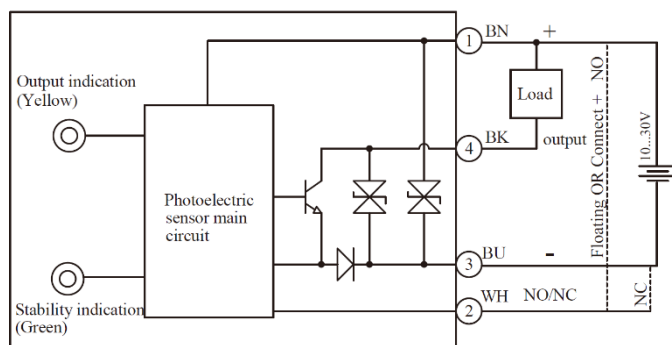
Detection type	Background suppression	Anti-ambient light	Anti-ambient light interference < 10,000lx; Incandescent light interference < 3,000lx
Rated distance [Sn]	100mm	Indicator display	Green light: power indicator, stable indication (low brightness, weak signal) Yellow light: output indication, short circuit or overload indication (flashing)
Light source	Red LED (660nm)	Ambient temperature	-15°C...60°C
Light spot	8*8mm@10cm	Ambient humidity	35-95%RH (non-condensing)
Output	NO/NC	Voltage withstand	1000V/AC 50/60Hz 60s
Hysteresis range [%/Sr]	≤5%	Insulation resistance	≥50MΩ(500VDC)
Supply voltage	10...30VDC	Vibration resistance	10...50Hz (0.5mm)
Load current	≤100mA	Degree of protection	IP67
Residual voltage	≤1.8V	Housing material	ABS
Distance adjustment	Non-adjustable	Installation method	Composite installation
Consumption current	≤25mA	Optical components	Plastic PMMA
Circuit protection	Short-circuit, overload, reverse polarity and zener protection	Weight	52g
Response time	≤0.5ms	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

NPN



PNP

