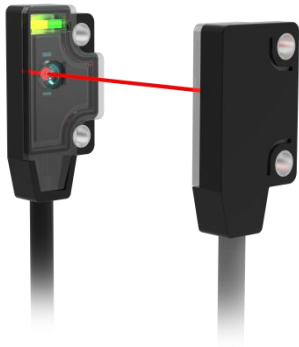


Ultra-thin photoelectric sensor PSW series



Features

- ◆ Positive induction
- ◆ Small size, easy to install and use
- ◆ Bright LED status indicator visible at 360°
- ◆ Good resistance to light interference, high product stability
- ◆ Red light source, easy to adjust the product alignment



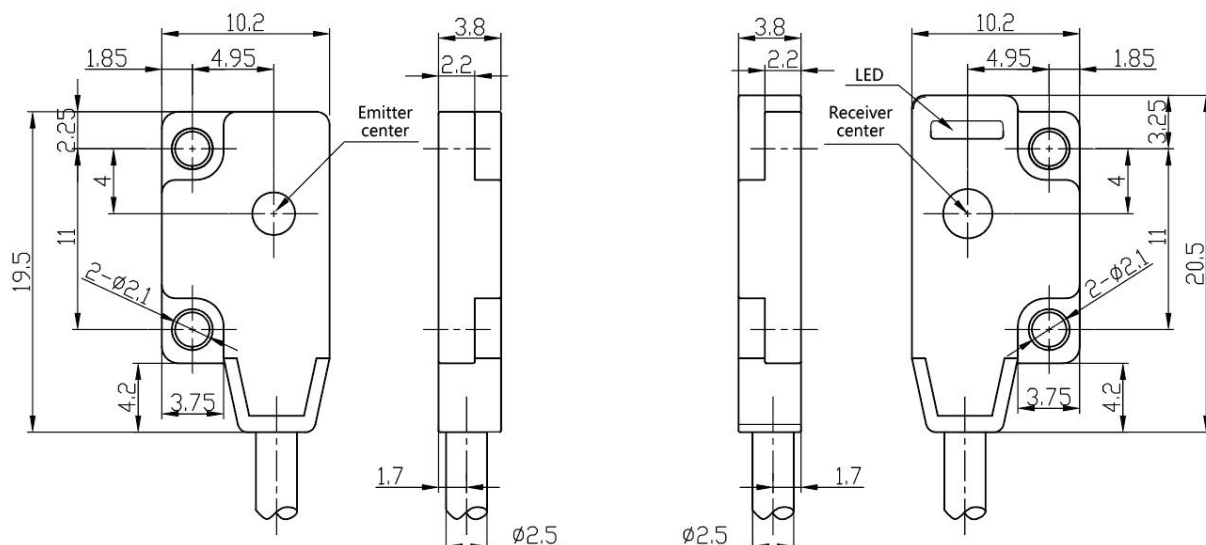
Part number

	Emitter	Receiver		Emitter	Receiver
NPN NO	PSW-TC50DR	PSW-TC50DNOR	PNP NO	PSW-TC50DR	PSW-TC50DPOR
NPN NC	PSW-TC50DR	PSW-TC50DNCR	PNP NC	PSW-TC50DR	PSW-TC50DPCR

Technical specifications

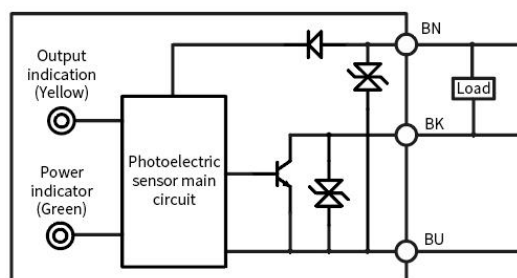
Detection distance	50cm	Repeat accuracy	0.05mm
Standard target	Φ2mm above opaque objects	Response time	< 1ms
Emission Angle	15-20°	Anti ambient light	Sunshine interference <10000 lux; incandescent light interference <3000 lux
light spot size	16cm@50cm	Operating temperature	-20°C...55°C(no icing,no condensation)
Supply voltage	10...30VDC	Storage temperature	-30°C...70°C(no icing,no condensation)
Current consumption	Emitter:≤10mA;Receiver:≤15mA	Protection degree	IP65
Load current	≤50mA	Housing material	PC+PBT
Voltage drop	<2V	Lens	PC
Light source	Red light LED(635nm)	Weight	20g
Circuit protection	Short circuit protection,overload protection,reverse polarity protection,zener protection	Connection	2m PVC cable
Indicator	Green:Power supply indicator, stability indicator(flicker); Yellow:Output indicator, short circuit indicator(flicker)	Accessory	M2 Screws (Length 8mm) ×2, Nut×2

Dimensions

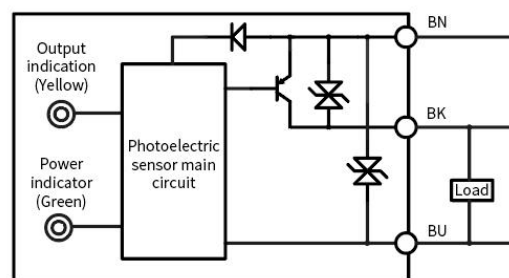


Wiring diagram

Receiver-NPN



Receiver-PNP



Emitter

