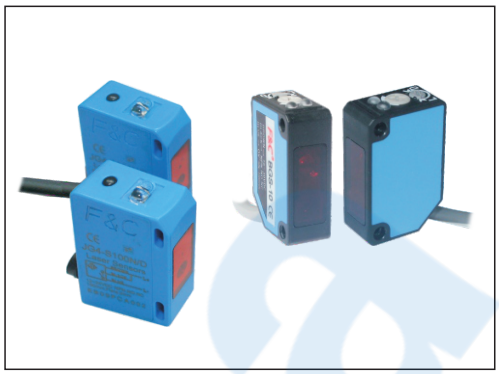
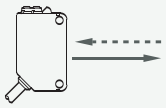
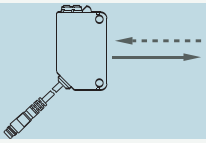
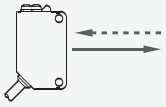
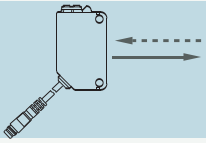
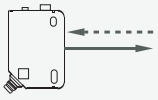
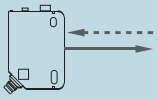
BGS series photo sensor

Features:

1. Intelligence reflection sensor,
   not effected by the detection angle.
2. 10mm light spot, isible infrared light.
3. Normal open or close adjustable.
4. Background suppression photo sensor.



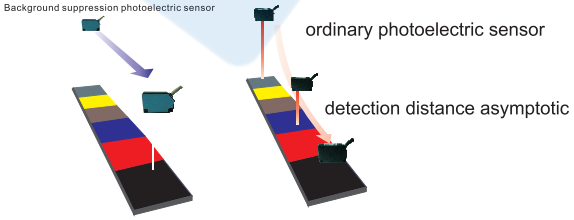
Procurement guide:

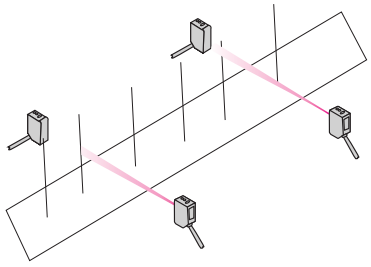
Category	Model	Detection Mode	Detection Distance	Standard Detection Object	Connecting Method
	BGS-10	NPN.NO.NC	100mm	minimum 1mm detection 10mm red spot	Φ4×2M/3-wires
	BGS-10/15D	NPN.NO.NC	100mm	minimum 1mm detection 10mm red spot	M8 connector with 150mm pre-wire cable
	BGS-30	NPN.NO.NC	300mm	minimum 1.5mm detection 15mm red spot	Φ4×2M/3-wires
	BGS-30/15D	NPN.NO.NC	300mm	minimum 1.5mm detection 10mm red spot	M8 connector with 150mm pre-wire cable
	BGS-S100 BGS-S100P	PNP.NO.NC	100mm	minimum 1mm detection 10mm red spot	Φ4×2M/3-wires M8 connector with 150mm pre-wire cable
	BGS-S300 BGS-S300P	NPN.NO.NC PNP.NO.NC	300mm	minimum 8mm detection 32mm red spot	Φ4×2M/3-wires M8 connector with 150mm pre-wire cable

Note: /D= M8 connector ; /15D= M8 connector with 150mm pre-wire cable

Applications:

No effect by angle,background or dust





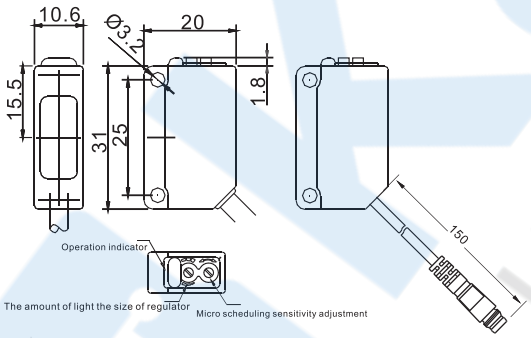
Detect small objects, the minimum detection material is 1mm

BGS series photo sensor

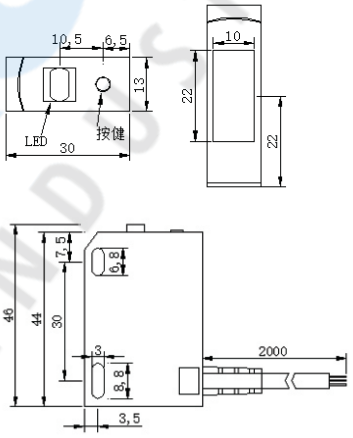
Sensing type / Model	Diffuse reflection			
	BGS-10 BGS-10P BGS-10/15D BGS-10P/15D	BGS-30 BGS-30P BGS-30/15D BGS-30P/15D	BGS-S100 BGS-S100P BGS-S100/15D BGS-S100P/15D	BGS-S300 BGS-S300P BGS-S300/15D BGS-S300P/15D
Minimum detectable object	Ø1mm	Ø1. 5mm	Ø1mm	Ø1. 5mm
Scanning distance	100mm	300mm	100mm	300mm
light source	630nm red light			
Operating voltage	12-24VDC±10%,			
Current consumption	Maximum 30mA			
Load current	100mA Max at DC 24V			
Output type	N=NPN.NO.NC		P=PNP.NO.NC	
Protection circuit	Reverse polarity protection and short circuit protection			
Response time	0. 5ms Max			
Insulation resistance	20MΩmin（DC500V）			
dielectric strength	AC1000V 60Hz for 60 Sec			
Operating temperature	-10℃~+50℃			
Ambient humidity	35%~85% RH			
Storage temperarure	-20℃~+60℃			
Storage humidity	35%~95% RH			
Protection degree	IP 66			
Material	Glass fiber reinforced resin			
Wiring method	Φ4×2M/3-wires/Φ4×2M/2-wires			
Ambient light	incandescent lights: 5000lux, day lights: 20000lux			
Weight	Approx. 20g			

Dimensions:

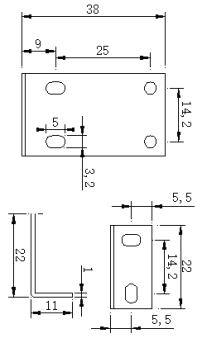
BGS-10/BGS-30



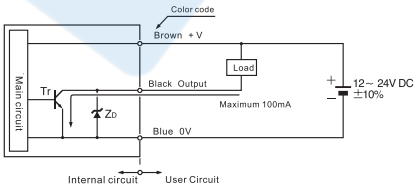
BGS-S100/BGS-S300



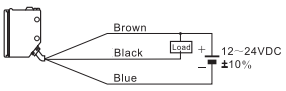
Sensor mounting bracket



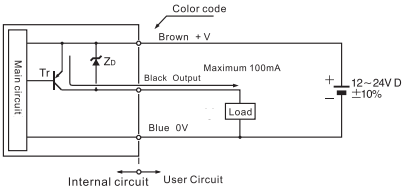
NPN. NO/NPN. NC



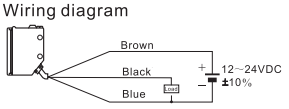
Wiring diagram



PNP. NO/PNP. NC



Wiring diagram





1 12-24VDC
2 Control output
3 0V