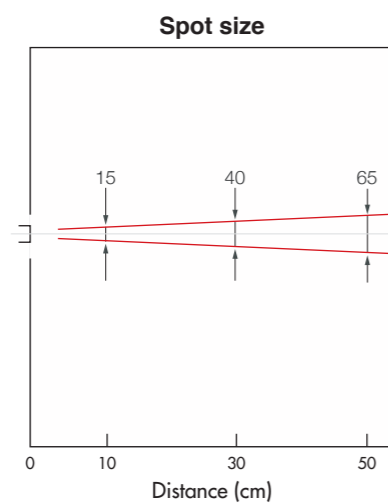
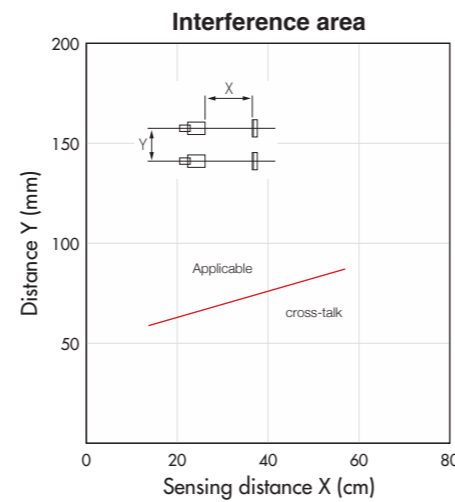
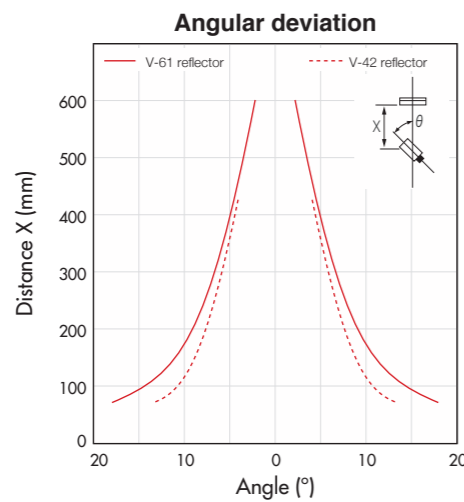
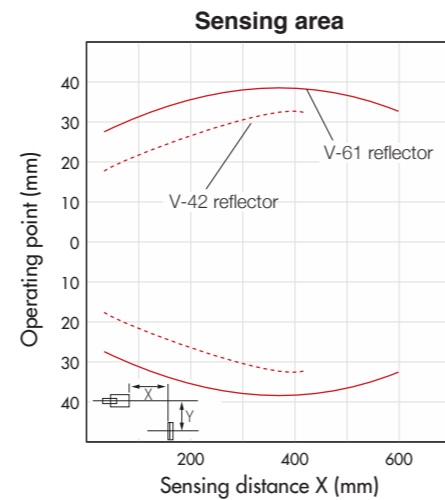
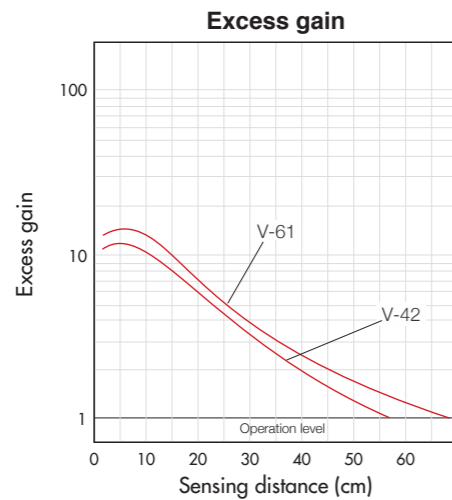


Reference (typical)



Photoelectric Sensor
S series

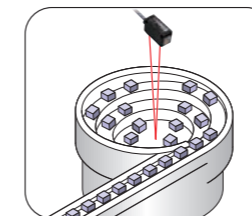


- BGS functionality built into a small package!
- Built-in polarizing filter (Retro-reflective) type.
- 100G shock resistance rating.
- M8 QD for all types.

Applications



Double feeding of ice cream cup (ST-400)

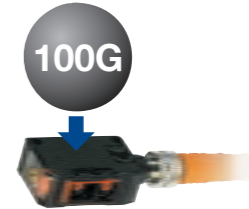
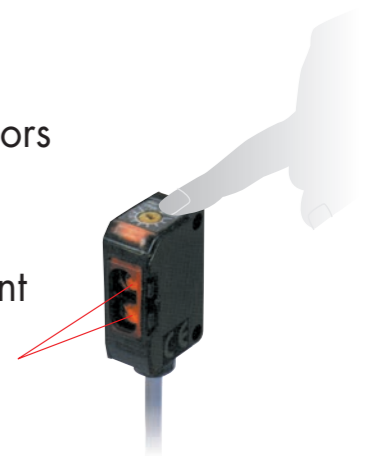


Parts feeder (BGS-S08)

Extremely small BGS type sensors (BGS-S08 and S03) are only 17x10x20 mm. Ideal for use in OEM equipment such as Printed Circuit Board processing machines.

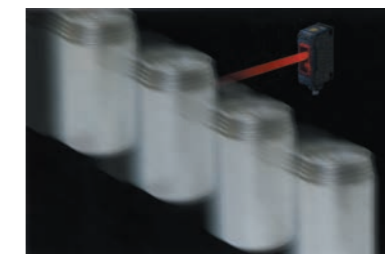
High rigidity for 100G shock resistance / IP67

Rigid design for high resistance to mechanical shock such as contact or collision.

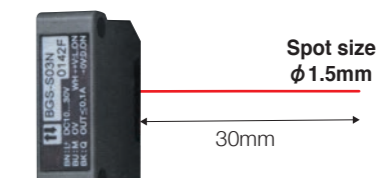


0.5ms high speed response

High speed response even with transparent targets.

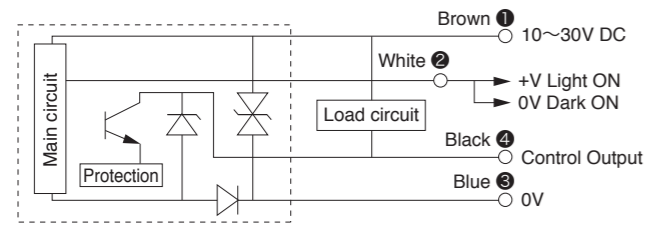


BGS-S03, with 1.5 φ spot at 30mm distance

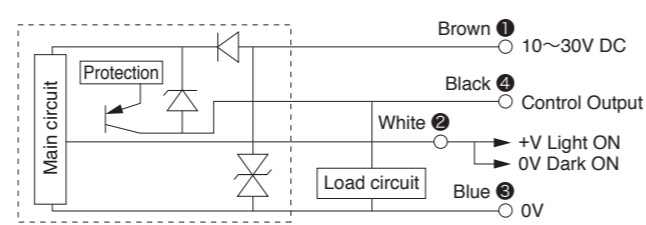


Circuit diagram

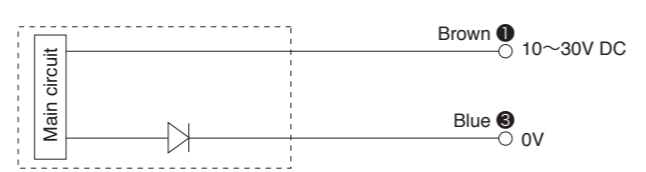
NPN output



PNP output

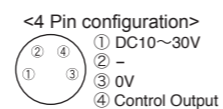
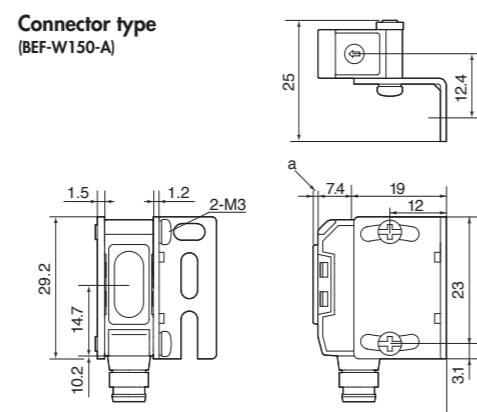
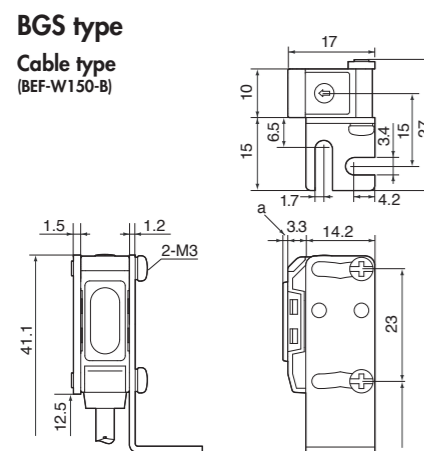
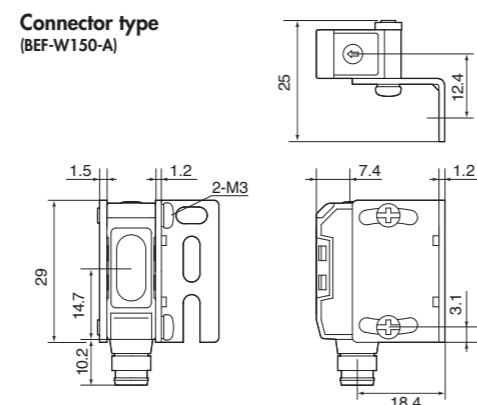
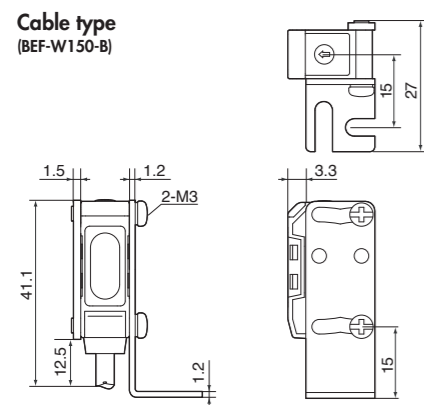


Emitter

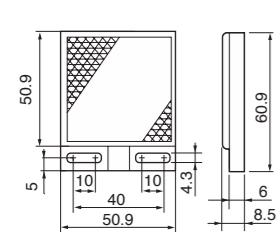


Dimensions

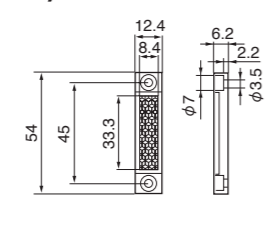
S series



Standard reflector V-61



Tiny reflector P45A



(Unit : mm)

Specifications

Model	Thru-beam	Retro-reflective with polarizing Filter	Diffuse reflective	BGS	
Cable type	NPN ST-400N	SR-150N	SD-20N	BGS-S08N	BGS-S03N
	PNP ST-400P	SR-150P	SD-20P	BGS-S08P	BGS-S03P
Connector type	NPN ST-400CN	SR-150CN	SD-20CN	BGS-S08CN	N.A.
	PNP ST-400CP	SR-150CP	SD-20CP	BGS-S08CP	N.A.
Sensing distance	4 m	1.5 m	200 mm	10 to 80 mm	10 to 30 mm
Supply voltage	10 to 30V DC including 10% of ripple				
Power consumption	30mA	20mA Max			
Hysteresis	—		20% MAX	10% MAX	
Minimum detectable object	φ 6 opaque object	□ 45mm opaque object	—		
Response time	0.5msec Max				
Control output	NPN or PNP Open collector, 100mA Max / 30V DC				
Operation mode	Light ON / Dark ON selectable				
Sensitivity adjustment	1-turn potentiometer			5-turn potentiometer	
LED Indicator	Red				
Ambient temp / humidity	-25 to +55°C / 35 to 85%RH				
Protection category	IP67				
Environmental illuminance	Sun Light:10,000 lux max. Incandescent lamp:3,000 lux max.				
Shock resistance	100G (1,000m/S ²) X,Y,Z, axis 3 times				
Vibration resistance	10 to 55 Hz amplitude 1.5mm, X-Y-Z for 2 hours				
Connection	"Cable type: Cable length 2m φ 3.5mm (Longer cable type of 5m is available as option) Connector type: M8 x 4-pin connector"				

Options

Standard reflector V-61



Tiny reflector P45A



Sensor stand

PLN-1
Fixture of Reflector
PLN-1M



JCN-S : M8 Straight type



JCN-S : 2 meter
JCN-5S : 5 meter
JCN-10S : 10 meter

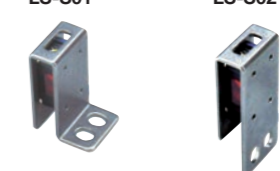
JCN-L : M8 L-shape type



JCN-L : 2 meter
JCN-5L : 5 meter
JCN-10L : 10 meter

Protective mounting brackets.

L-shape type LS-S01
Straight type LS-S02



BL-150-10

Slit mask for ST-400

