

Infrared Compact Photoelectric Sensor

[PG Series]

- Compact size, ideal for space constraint
- 1ms response time
- Economical option



Photoelectric
Sensor

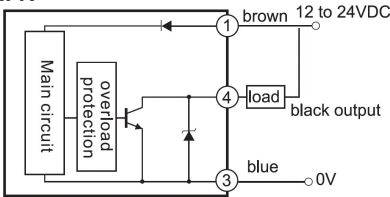
Specifications

Type	Reflective		Thrubeam
Model	NPN	PG-D010N	PG-T15N
	PNP	PG-D010P	PG-T15P
Detecting distance	100 mm		1,500 mm
Light source	Infrared LED		Infrared LED (940 nm)
Response time	1 ms		3 ms
Control output	NPN / PNP open collector output, 24 V max., 50 mA max., Residual voltage 1.5 V max.		
Protection circuit	Reversed polarity, overcurrent protection, surge absorber		
Power supply	24 VDC including Ripple $\pm 10\%$ (P-P)		12 to 24 VDC including Ripple $\pm 10\%$ (P-P)
Current consumption	25 mA or less		
Enclosure rating	IP65		
Ambient light	Incandescent lamp: 5,000 max., Sunlight: 20,000 lux max.		
Ambient temperature	-25 to +55°C (No freezing)		
Relative humidity	35 to 85% RH (No condensation)		
Vibration resistance	10 to 55 Hz, 1.5 mm double amplitude in the X, Y and Z directions, for 2 hours respectively		
Shock resistance	1,000 m/s ² 6 times in the X and Y direction		
Material	Polycarbonate		

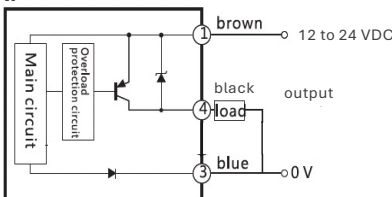
Input / Output Circuits

PG-D010

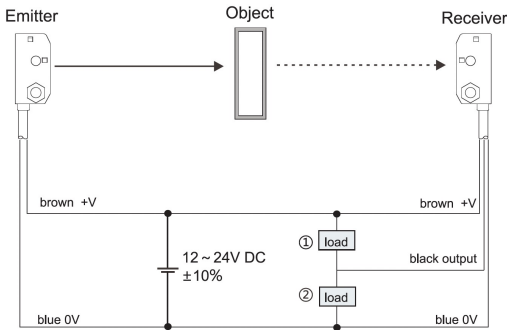
NPN



PNP

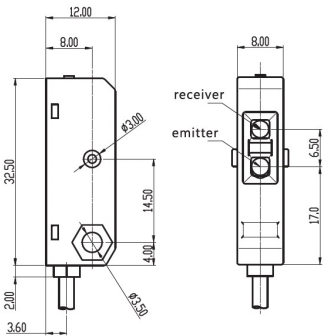
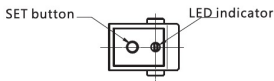


PG-T15



Dimensions

PG-D010



PG-T15

