Optical Passage Confirmation Sensors

PG Series



Built-in automatic sensitivity-compensating circuit

The sensitivity of the receiver is automatically adjusted by the built-in compensating circuit, even when the amount of light reaching the receiver is reduced due to dust or debris.

Self-diagnostic output simplifies maintenance

In addition to the stable operation indicator, the PG features an alarm output, which is triggered by a sharp decrease in incident light quantity, or when the sensor cable is disconnected, allowing speedy correction.

OFF-delay time selector switch

Can be set to 0.5 ms or 70 ms.

The sensor head window can be opened or closed

The sensor head can be easily mounted to an installed pipe with no open end.



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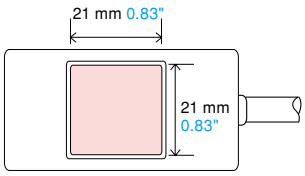
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Lineup

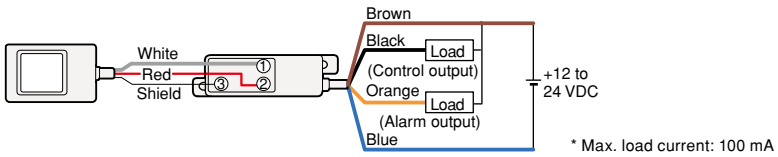
Type	Appearance	Sensor window	Smallest detectable object	Model
Sensor head			0.5 mm 0.02" dia. min. opaque materials	**PG-602**
Amplifier				**PG-610**

Specifications

Model			
	Sensor head		**PG-602**
	Amplifier	NPN	**PG-610**
Sensor window			21 x 21 mm 0.83"
Smallest detectable object			0.5 mm 0.02" dia. min. opaque materials
Light source			Infrared LED
Sensitivity adjustment			1-turn trimmer
Indicator			Output: Red LED, Stable operation: Green LED
Output [1]	Control output [2]		NPN: 100 mA max. (40 V max.) Residual voltage: 1 V max.
	Self-diagnostic output		NPN: 100 mA max. (40 V max.) Residual voltage: 1 V max.
	Response time		0.2 ms
Off-delay time			0.5/70 ms (selectable)
Power supply			12 to 24 VDC ±10%
Current consumption			40 mA max.
Ambient light			Fluorescent lamp: 10,000 lux max., Sunlight: 1,500 lux max.
Ambient temperature			Sensor head: -10 to +60°C (14 to 140°F), Amplifier: -10 to +50°C (14 to 122°F), No freezing
Relative humidity			35 to 85%, No condensation
Housing			Polycarbonate
Weight			Sensor head (including 2-m 6.6' cable): Approx. 40 g, Amplifier (including 3-m 9.8' cable): Approx. 100 g

1. NPN output can easily be converted to PNP output by connecting the optional **OP-5148** PNP Output Converter.
2. One-shot output (ON when target passes through sensor)

Connections

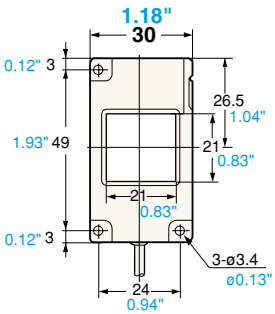


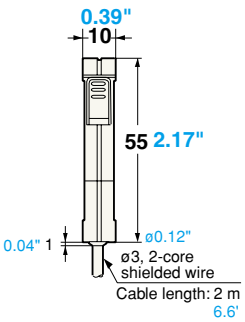
Dimensions

Unit: mm inch

Sensor head

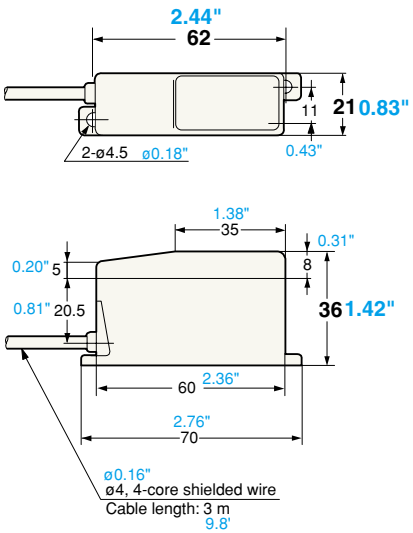
PG-602





Amplifier

PG-610



611Q78