# Optical Passage **Confirmation Sensors PG Series**



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# Built-in automatic sensitivity-compensating

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

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

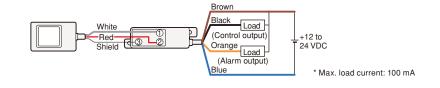


Sp	ecifi	cati	ons

Madel	Sensor head		PG-602	
Model	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	
Control output 2.			NPN: 100 mA max. (40 V max.) Residual voltage: 1 V max.	
Output <sup>1.</sup>	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	

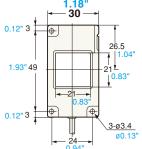
- 1. NPN output can easily be converted to PNP output by connecting the optional **OP-5148** PNP Output Converter.
- One-shot output (ON when target passes through sensor)

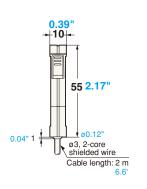
### Connections

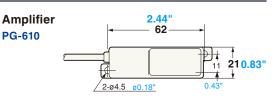


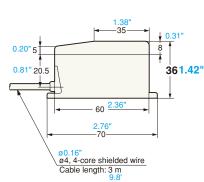
## Dimensions











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