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Focused-beam Photoelectric Sensor

PZ-101

Features

- Detecting distance of 0 to 100 mm 3.94"
- Red LED as light source
- Visible beam spot as small as 5 x 5 mm 0.20" x 0.20"
- Visible beam allows easy alignment with target.

Detecting Distance

Focused-beam – 0 to 100 mm (0 to 3.94")

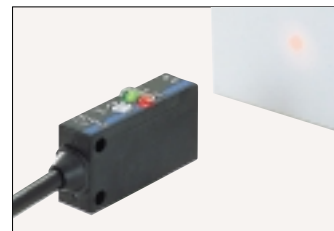


Description

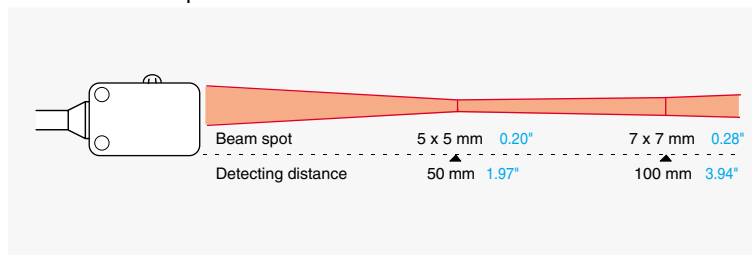
Small visible beam spot

The PZ-101 utilizes a special lens to create the small beam spot. The red LED light source enables you to visibly confirm the detection spot position.

- Detecting distance of 0 to 100 mm 3.94"

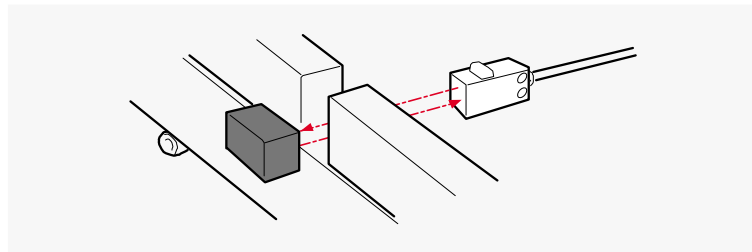


- Visible beam spot as small as 5 x 5 mm 0.20" x 0.20"



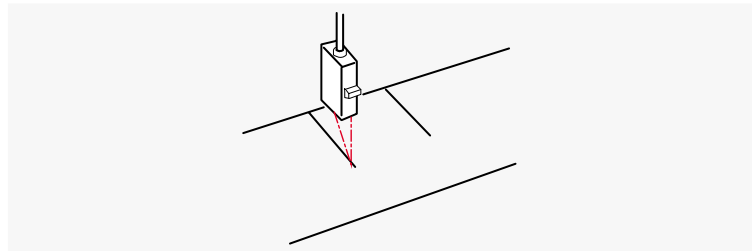
Detection possible from break or opening in conveyor

Since the emitted beam is very narrow, the sensor can be placed in a location of limited space to detect an object through a break or opening in an assembly line.



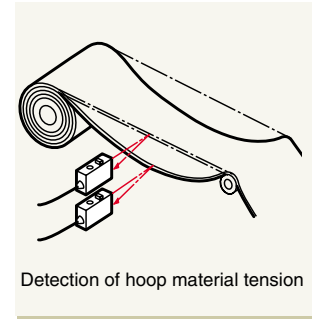
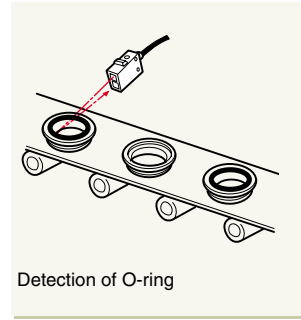
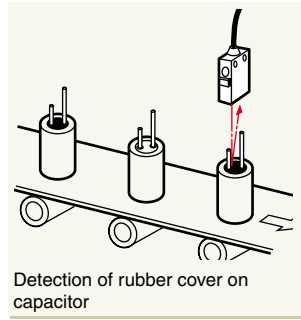
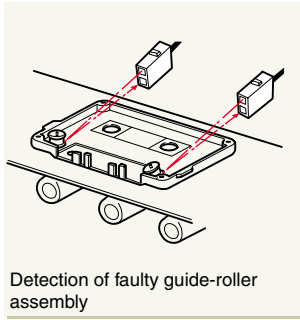
Clearly distinguishes between black and white

The sensor's small beam spot can determine whether an object is black or white. Therefore, the PZ-101 may also be used as a mark sensor.



Focused-beam Photoelectric Sensor PZ-101

Applications

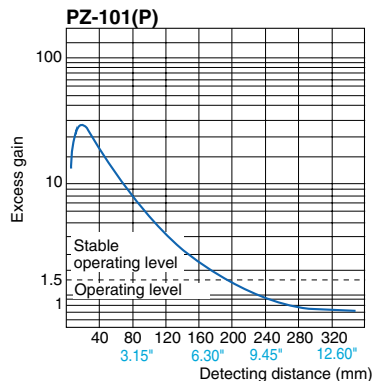


Specifications

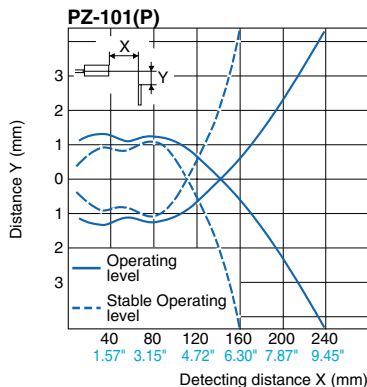
Type	Focused-beam	
Model	NPN	PZ-101
	PNP	PZ-101P
Detecting distance	0 to 100 mm 3.94"	
Detectable object	Transparent and opaque materials	
Hysteresis	20% max. of detecting distance	
Response time	1 ms max. (2 ms in alternate frequency mode)	
Light source	Infrared LED	
Sensitivity adjustment	1-turn trimmer (240°)	
Operation mode	LIGHT-ON/DARK-ON (selectable by wiring)	
Indicators	Output: Red LED, Stable operation: Green LED, Power supply: Red LED	
Control output	NPN or PNP: 100 mA (40 V) max.	
Alarm output (NPN type only)	NPN: 100 mA (40 V) max.	
Power supply	12 to 24 VDC ±10%	
Current consumption	30 mA max.	
Enclosure rating	IP-67	
Ambient light	Incandescent lamp: 5,000 lux max., Sunlight: 20,000 lux max.	
Ambient temperature	-20 to +55°C	
Housing	Glass-fiber reinforced resin	
Weight (including 2-m 6.6' cable)	Approx. 75g	

Characteristics

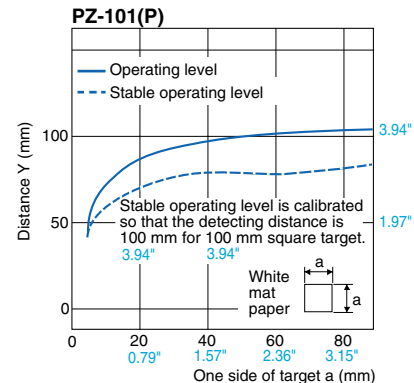
Receiver excess gain vs. distance (Typical)



Operating distance vs. detecting distance (Typical)



Detecting distance vs. object size (Typical)



* For connection and dimension information, refer to the PZ-41 information of the PZ Series.



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