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Find the *Keyence PZ-101* at our website: *Click HERE*

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")

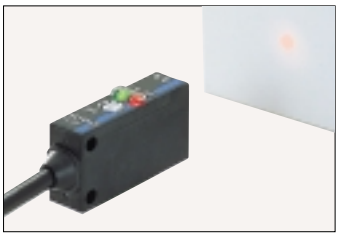


Description

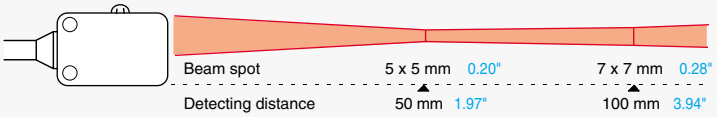
Small visible beam spot

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"

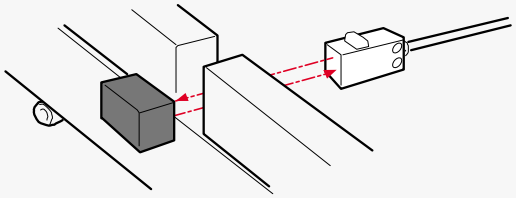


- Visible beam spot as small as 5 x 5 mm 0.20" x 0.20"



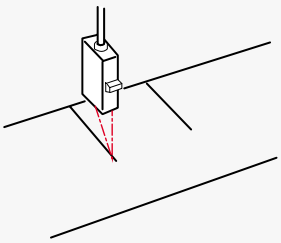
Detection possible from break or opening in conveyor

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

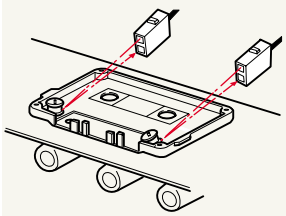
The sensor's small beam spot can determine whether an object is black or white. Therefore, the PZ-101 may also be used as a mark sensor.



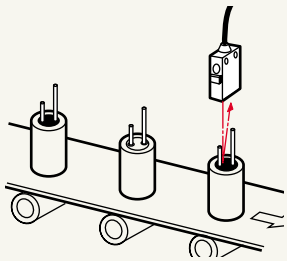
CE

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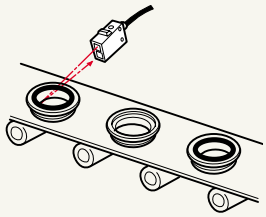
Applications



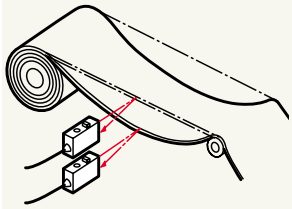
Detection of faulty guide-roller assembly



Detection of rubber cover on capacitor



Detection of O-ring



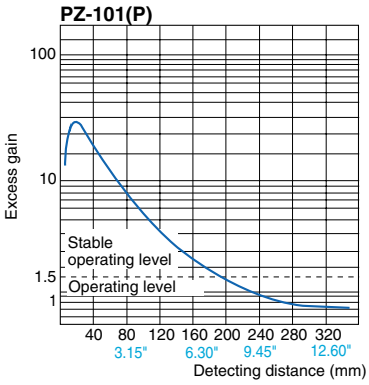
Detection of hoop material tension

Specifications

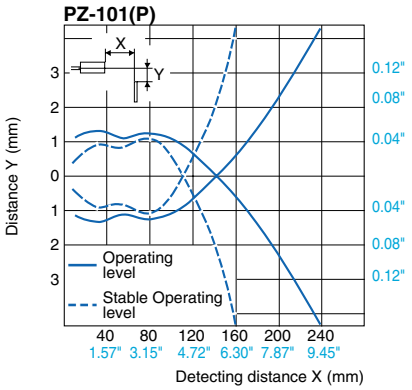
Type		Focused-beam
Model	NPN	PZ-101
	PNP	PZ-101P
Detecting distance		0 to 100 mm 3.94"
Detectable object		Transparent and opaque materials
Hysteresis		20% max. of detecting distance
Response time		1 ms max. (2 ms in alternate frequency mode)
Light source		Infrared LED
Sensitivity adjustment		1-turn trimmer (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

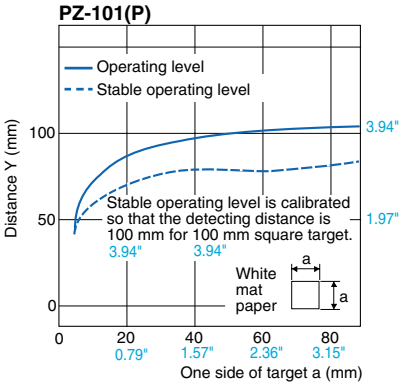
Receiver excess gain vs. distance (Typical)



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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