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Find the *Keyence PW-61J* at our website: ***Click HERE***

Multi-voltage Power Supply Photoelectric Sensors

PW Series



Features

- Long detecting distance
- AC/DC multi-power supply
- Powerful light beam
- Multi-mode timer

Expert Engineering Sites

www.sensorcentral.com



An on-line guide of automation knowledge and techniques

Ultra-small sensor head

All PW Series sensors have a long-detecting distance: 1 m for the diffuse-reflective type, 5 m for the retro-reflective type, and 10 m for the thrubeam type. The powerful light beam allows stable sensor operation even in dusty environments.

Unit: mm



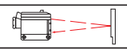
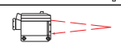
Multi-mode timer (Models: PW-41J/51J/61J)

The output time for models equipped with a timer can be set within a range of 0.1 to 5 seconds. The timer operates in three ways: ON-delay mode, OFF-delay mode, and One-shot mode.

Slit plate enhances detection accuracy

The thrubeam types (PW-51 and PW-51J) are equipped with a slit plate that reduces the light to a narrow beam. This allows an object as small as 3 x 6 mm to be detected from a distance of 1.5 m. A narrow beam has other advantages, including maintaining a constant detection, and preventing interference when 2 or more sensors are installed in parallel.

Lineup

Type	Appearance	Detecting distance	Timer mode	Model
Thrubeam		10 m [1]	–	PW-51
			0.1 to 5 s	PW-51J
Retro-reflective		0.1 to 5 m (with R-1)	–	PW-61
			0.1 to 5 s	PW-61J
Diffuse-reflective		1 m	–	PW-41
			0.1 to 5 s	PW-41J

1. Opaque materials of 3 x 6 mm with slit plate attached (at detecting distance of 1.5 m)

Specifications

Type	Thrubeam		Retro-reflective		Diffuse-reflective	
Model	PW-51	PW-51J	PW-61	PW-61J	PW-41	PW-41J
Detecting distance	10 m [1]		0.1 to 5 m (with R-1)		1 m (with 200 x 200 mm white mat paper)	
Standard detectable	Opaque materials (15 x 15 mm min.)[1]		Opaque materials (30 x 30 mm min.)		Opaque and transparent materials	
Hysteresis	—				20% max. of detecting distance (150 mm min. detecting distance)	
Response time	20 ms max.					
Light source	Infrared LED					
Sensitivity adjustment	—				1-turn trimmer (240°)	
Operation mode	LIGHT-ON/DARK-ON (switch-selectable)					
Indicator	Output: Red LED, Power: Red LED (thrubeam type only)					
Timer mode	—	0.1 to 5 s [2]	—	0.1 to 5 s [2]	—	0.1 to 5 s [2]
Control output	SPST-NO relay contact, 250 VAC 3 A max., 30 VDC 3 A max. (resistive load)					
Power supply	24 to 240 VAC ±10%, 50/60 Hz, 12 to 240 VDC ±10%					
Power consumption	3 VA max. (both transmitter and receiver)		3 VA max.			
Enclosure rating	IP66					
Ambient light	Incandescent lamp: 5,000 lux max., Sunlight: 20,000 lux max.					
Ambient temperature	-10 to +60°C, No freezing					
Relative humidity	35 to 85%, No condensation					
Materials	Housing: PBT, Lens: acrylic, Terminal cover: Polysulfone					
Weight	Transmitter: Approx. 70 g Receiver: Approx. 90 g	Transmitter: Approx. 70 g Receiver: Approx. 95 g	Approx. 95 g	Approx. 100 g	Approx. 95 g	Approx. 100 g

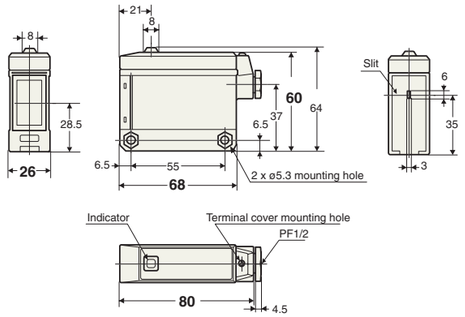
1. Opaque materials of 3 x 6 mm with slit plate attached (at detecting distance of 1.5 m)
2. ON-delay, OFF-delay, and One-shot modes are selectable.

Dimensions

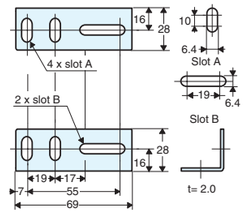
Unit: mm

PW-51/51J/61/61J/41/41J

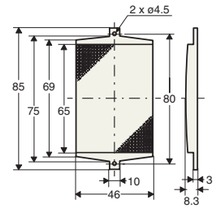
With slit plate
(standard accessory for PW-51/51J)



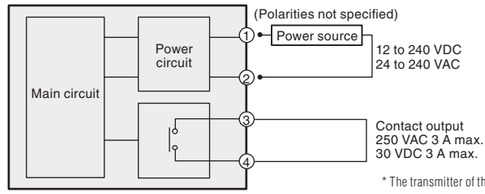
Mounting bracket (standard)



Reflector R-1
(accessory for PW-61/61J)



Input/Output Circuits



* The transmitter of the thrubeam type is provided with power terminals only.

Fibreoptic
Photoelectric
Proximity
Area Sensor
Pressure
Multi Function
High Precision
PLC/Touch Panel
Static Elimination
Vision System
Laser Marker
Barcode
Microscope

PHOTOELECTRIC SELECTION GUIDE
CMOS LASER GV
COMPACT LASER LV-S/H
RGB COLOUR CZ-V20 CZ
FLUORESCENCE DETECTION UV CZ-H52
LUSTRE DETECTION CZ-H72
HEAVY-DUTY PX
SEPARATE AMP. PS
SELF-CONTAINED PZ-G PZ-V/M PZ2 PZ2-62 PZ-101
AMP-IN-CABLE PQ
MULTI-VOLTAGE PW
PASSAGE PG

TECHNICAL GUIDE: P754

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