



## BP18Y Retro-reflective Photoelectric Sensor 30-3500mm Long Range PNP IP67 Protection

### Our Product Introduction

#### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: BP18Y-R3500P
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Polybag packing
- Delivery Time: 5-8 working days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 10000 pieces per month

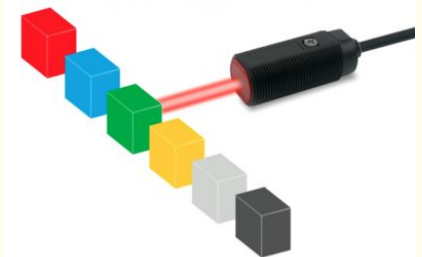
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#### Product Specification

- Detection Distance: 30-3500mm
- Sensing Method: Retro-reflective
- Output Type: PNP
- Power: 12-24 VDC  $\pm 10\%$
- Power Consumption: Max. 300mW, Max. Voltage: 24V
- Ambient Light Level: Lamp Max 20,000lux, Sunlight Max 30,000lux

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Product Description

BP18Y Series Retro-reflective Photoelectric Sensors: Long-Range Detection with Single-Unit Convenience

The BP18Y-R3500P retro-reflective photoelectric sensor delivers exceptional performance for long-distance detection applications while maintaining the installation simplicity of a single device. With an impressive sensing range of up to 3.5 meters, this sensor combines long-range capability with the reliability of advanced photoelectric technology. The compact cylindrical design ensures easy mounting while providing robust performance in demanding industrial environments.

Key Features:

- Extended Detection Range:** 30-3500mm sensing distance for versatile long-range applications
- Retro-reflective Operation:** Single-unit design using a reflector for easy installation and alignment
- Dual Output Configuration:** Selectable PNP/NPN output with Light/Dark operation mode
- Rapid Response Time:** <1ms response speed for high-speed applications
- Enhanced Reliability:** Automatic anti-interference function and short-circuit protection
- Clear Visual Feedback:** Dual-color LED indicators for power and output status monitoring

Feature	Speciication
Sensing Type	Retro-reflective
Part Number	BP18Y-R3500P
Detection Distance	30-3500 mm
Signal Output	PNP
Connection	2 meter cable



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# BP18Y Series

## Cylindrical Photoelectric Sensor

- Compact design for easy installation
- Clear indicator for status monitoring
- Wide variety of models available
- Equipped with automatic anti-interference function



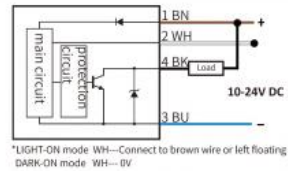
### Technical Parameters

Type	Direct Diffuse	Diffuse-Transparent	Diffuse-Background	Retro-reflective	Through Beam
NPN	BP18Y-D500N	BP18Y-H150N	BP18Y-G100N	BP18Y-R3500N	BP18Y-T10N
PNP	BP18Y-D500P	BP18Y-H150P	BP18Y-G100P	BP18Y-R3500P	BP18Y-T10P
Detection Distance	10-500mm	10-150mm	20-100mm	30-3500mm	50mm-10m
Response Time	< 1ms				
Control Output	NPN&PNP: open collector output 24V, Max.100mA(only for main unit) residual voltage:1V				
Output Option	LIGHT-ON/DARK-ON configured via white control wire: Connect white wire to GND for DARK-ON; Connect to brown wire or leave open for LIGHT-ON				
Output Function	1 output pot, Short-Circuit Protection, Auto Anti-Interference Function				
Power	12 to 24VDC $\pm 10\%$ , Ripple (P-P): Max. 10% (Class 2)				
Light Source	Red light 635nm, 4-element LED array				
Indicator	Green LED indicator indicates power, and red LED indicator indicates output				
Power Consumption	Standard Mode: Max. 300mW, Max. Voltage: 24V				
Ambient Light Level	Incandescent light: Max: 20,000lux, Sunlight: Max: 30,000lux				
Ambient Temperature	-10 to +55°C (non-freezing)				
Vibration resistance	10 to 55Hz, double amplitude: 1.5mm, 2 hours each for X, Y, Z axes				
Connection	Flying leads, 2m cable				

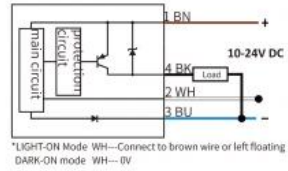


## Circuit diagram

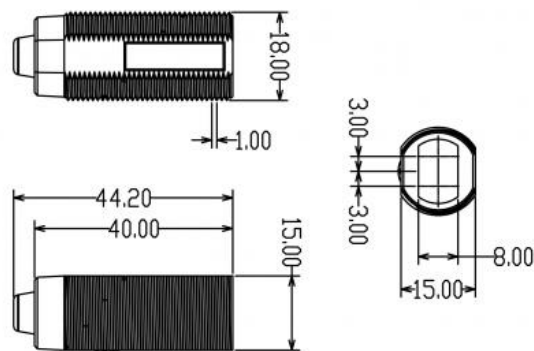
DC NPN output



DC PNP output



## Dimension



Photoelectric Sensors



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