



Cylindrical Photoelectric Sensor Direct Diffuse 10-500mm PNP NPN Output Compact Size

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: BP18Y-D500N
- 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



Product Specification

- Detection Distance: 10-500mm
- Response Time: <1ms
- Control Output: NPN
- Power: 12-24 VDC
- Light Source: Red Light 635nm
- Indicator: LED



More Images



Product Description

BP18Y Series | Compact Cylindrical Photoelectric Sensors

Versatile, Reliable Detection for Demanding Automation Applications

The BP18Y Series is a comprehensive line of cylindrical photoelectric sensors engineered for high performance and effortless integration. Combining a compact, industrial-grade design with advanced features like an automatic anti-interference function, these sensors deliver unwavering reliability in detecting presence, position, and objects across a vast range of industrial environments.

Application Examples

The BP18Y-D500N is perfectly suited for a multitude of automation tasks, including:

Object Presence Detection on assembly lines and packaging machinery.

Bottle/Container Counting in bottling and food & beverage applications.

Pallet & Tote Detection in material handling and warehouse automation.

Simple Positioning and end-of-stroke verification.

Why Choose the BP18Y Series?

Ease of Use: With flying lead connections and a simple wire-configurable output, installation and setup are remarkably fast.

Robust Construction: Built to withstand industrial vibrations, temperature variations, and wet conditions with an IP67 rating.

Cost-Effective Reliability: Offers a perfect balance of advanced features, durability, and value, minimizing downtime and maintenance costs.

Browse the full BP18Y Series to find the perfect sensing solution for your needs, including Through-beam and Retro-reflective models.

Feature	Speciication
Sensing Type	Direct Diffuse (Proximity)
Part Number	BP18Y-D500N
Detection Distance	10-500 mm
Light Source	High-intensity Red Light (635nm), 4 element LED Array
Power Supply	12-24 VDC

KRONZ



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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



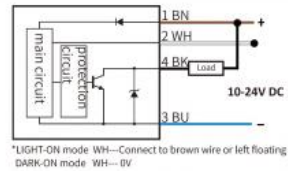
Technical Parameters

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				

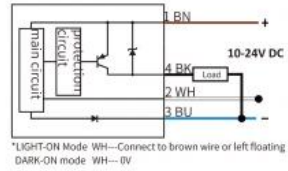


Circuit diagram

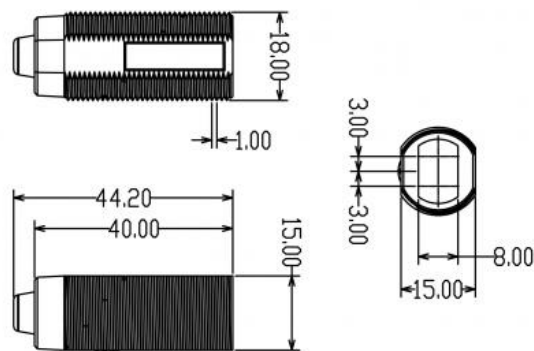
DC NPN output



DC PNP output



Dimension



Photoelectric Sensors



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