BP18Y Through-Beam Photoelectric Sensor 50mm-10m Range NPN Output IP67 High Reliability

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: BP18Y-T10N
- 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: 50mm-10m
- Sensing Method: Through Beam
- Signal Output: NPN Output
- Power: 20 VDC ±10%
- Power Consumption: Max. 300mW, Max. Voltage: 24V
- Control Output: NPN&PNP: Open Collector Output 24V, Max.100mA(only For Main Unit) Residual Voltage:1V
- Highlight: **Through-Beam Photoelectric Sensor 50mm-10m range , NPN output photoelectric sensor IP67 , High reliability photoelectric sensor with warranty**

More Images

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Our Product Introduction

Product Description

BP18Y-T10N Through-Beam Photoelectric Sensor: Maximum Reliability for Critical Detection Tasks

The BP18Y-T10N through-beam photoelectric sensor delivers uncompromised performance for applications requiring the highest level of detection reliability. With a robust sensing range of 50mm to 10 meters, this sensor pair ensures precise object detection even in challenging industrial environments. The through-beam design provides superior immunity to object color, surface finish, and environmental factors, making it the ideal choice for critical automation tasks.

Key Features

- **Exceptional Sensing Range**: 50mm to 10-meter detection distance for versatile application coverage
- **Through-Beam Reliability**: Highest immunity to object characteristics and environmental conditions
- **Dual Output Configuration**: Compatible with both NPN and PNP systems via open collector output
- **Ultra-Fast Response**: <1ms response time for high-speed automation applications
- **Industrial Durability**: IP67-rated housing withstands harsh conditions including dust and moisture exposure
- **Clear Visual Status**: Dual LED indicators for instant power and output status monitoring

Feature	Speciication
Sensing Type	Through-beam
Part Number	BP18Y-T10N
Detection Distance	50mm - 10 meters
Signal Output	NPN Output
Connection	2 meter cable output

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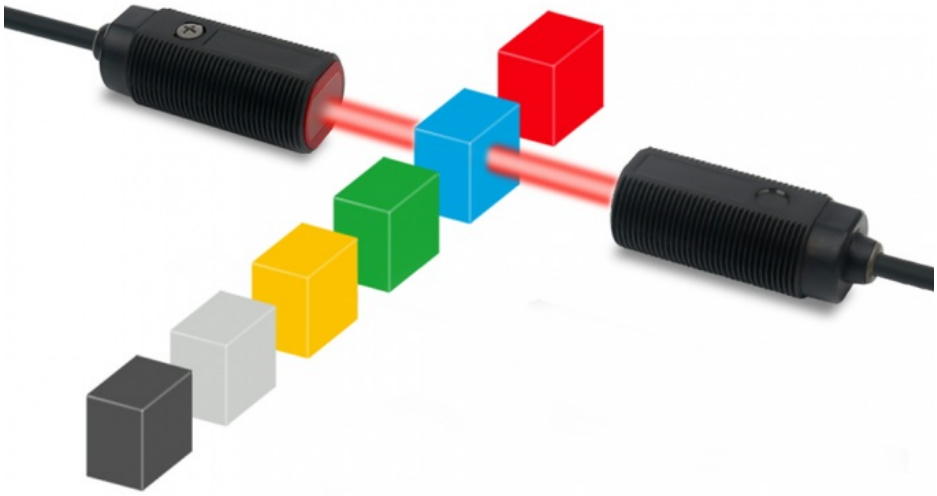

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BP18Y Series
Cylindrical Photoelectric Sensor

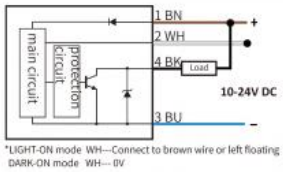
- Compact design for easy installation
- Clear indicator for status monitoring
- Wide variety of models available
- Equipped with automatic anti-interference function

Technical Parameters

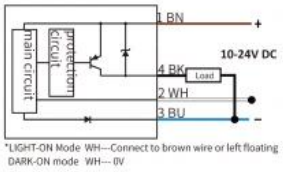
Type	Direct Diffuse	Diffuse-Transparent	Diffuse-Background	Retro-reflective	Through Beam
NPN	BP18Y-D500N	BP18Y-H150N	BP18Y-G100N	BP18Y-R3500N	BP18Y-T10N
PNP	BP18Y-D500P	BP18Y-H150P	BP18Y-G100P	BP18Y-R3500P	BP18Y-T10P
Detection Distance	10-500mm	10-150mm	20-100mm	30-3500mm	50mm-10m
Response Time	< 1ms				
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 ±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

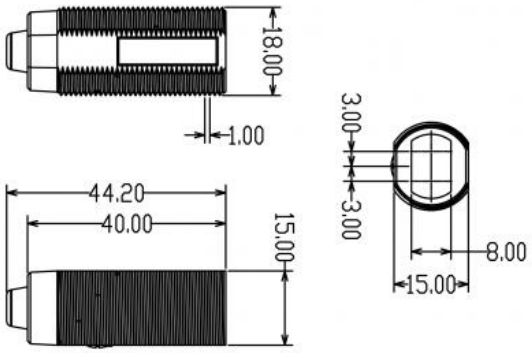
DC NPN output



DC PNP output



Dimension



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