

BP18Y Series Background Suppression Sensor 20-100mm Range Diffusereflective PNP/NPN IP67

Basic Information

• Place of Origin: Guangdong, China

Brand Name: KRONZCertification: CE

Model Number: BP18Y-G100N

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

KRONZ



Product Specification

• Detection Distance: 20-100mm

• Sensing Method: Diffuse-reflective With Background

Suppression

Output Type: PNP/NPN Selectable, Open Collector

• Power: 24 VDC

• Light Source: Red LED, 635nm Wavelength

Protection Features: Short-circuit Protection, Reverse Polarity

Protection

KRONZ



More Images

KRONZ



Product Description

BP18Y Series Background Suppression Photoelectric Sensors: Precise Detection, Unmatched Stability

The BP18Y-G100N represents the advanced tier of our photoelectric sensor series, featuring cutting-edge background suppression technology. This sophisticated sensor accurately detects objects within a predefined range while effectively ignoring any background surfaces beyond its set detection distance. Engineered for challenging applications requiring precise positioning and reliable performance, the BP18Y-G100N ensures optimal operation even when detecting objects against complex backgrounds.

Key Advantages:

Advanced Background Suppression: Utilizes precise triangulation principle to maintain consistent detection within 20-100mm range, completely ignoring background interference

Universal Output Configuration: Selectable PNP/NPN open-collector output with easy Light-On/Dark-On mode switching via control wire

Superior Stability: Advanced anti-interference circuitry ensures reliable performance in electrically noisy environments

Quick Status Monitoring: Dual-color LED system provides immediate visual feedback for power and output status

Industrial Durability: IP67-rated housing withstands harsh conditions including dust, moisture, and mechanical vibrations

Feature	Speciication
Sensing Type	Diffuse-Background
Part Number	BP18Y-G100N
Detection Distance	20-100 mm
Ambient Temperature	-10 to +55 (non-freezing)
Connection	2 meter cable output





KRONZ



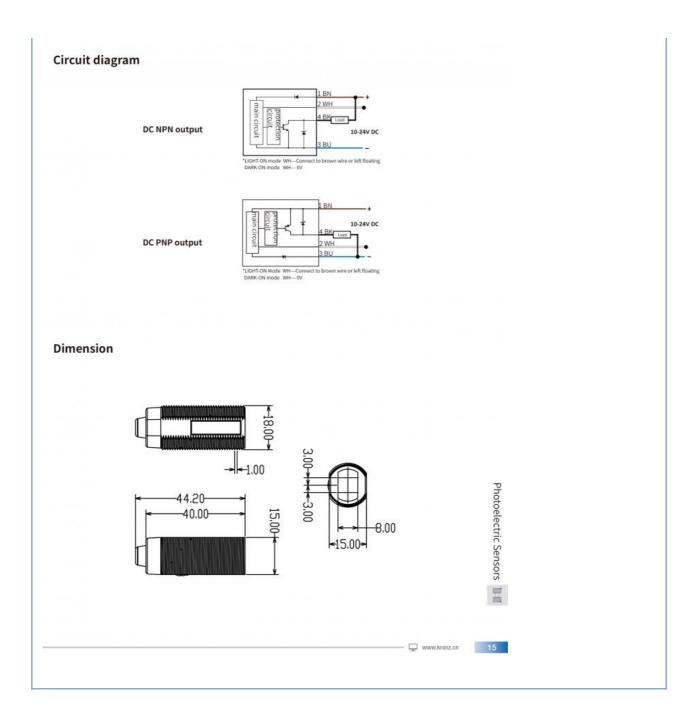
Cylindrical Photoelectric Sensor

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



Technical Parameters

Туре	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						





+8618924160375

sales02@kronz.cn

© connector-industrial.com

6th Floor, B602 Building, No.10, Rong Jing 2nd Road, Yu Shan Guo Ji, Yong Ning Street, Zeng Cheng District, Guangzhou, P.R.China