



Linear Beam Photoelectric Sensors <0.5ms Response Time NPN Output Type Diffuse Reflection

Our Product Introduction

For more products please visit us on connector-industrial.com

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: BLQ20S-G300N
- 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

- Sensing Distance: 30-300mm
- Application: Industrial Automation
- Output: NPN
- Residual Voltage: 2V (operating Current: 10~100mA)
- Operating Humidity: 35%~85%RH
- Storage Humidity: 35~95%RH (non-freezing, non-condensing)
- IP Rating: IEC60529: IP64
- Power Supply: DC 12~24V; Ripple :±10%
- Highlight: **Diffuse Reflection Photoelectric Sensors,
Linear Beam Photoelectric Sensors**

KRONZ

Product Description:

A Long-range Photoelectric Sensor is a type of sensor that uses light to detect the presence or absence of an object. Specifically designed to detect opaque objects, this sensor is equipped with an Infrared LED as its light source. The sensor's high-quality Infrared LED ensures reliable and accurate detection of objects within a sensing distance range of 30-300mm.

What is the CMOS Laser Displacement Photoelectric Sensors?

In modern manufacturing, it's often necessary to measure very small distances — such as how flat a surface is, how thick a part is, or how far apart two components are. These measurements need to be **extremely precise**, fast, and non-contact — especially when parts are delicate, moving, or hot.

A **CMOS Laser Displacement Photoelectric Sensor** is a specialized device designed to solve this exact challenge.

It projects a narrow laser beam onto the target surface. The reflected light is captured by a **CMOS image sensor**, which calculates the exact distance based on where the light hits the sensor. This allows manufacturers to **monitor dimensions in real time** — down to the micrometer — without ever touching the object.

KRONZ



PHOTOELECTRIC SENSOR Background suppression

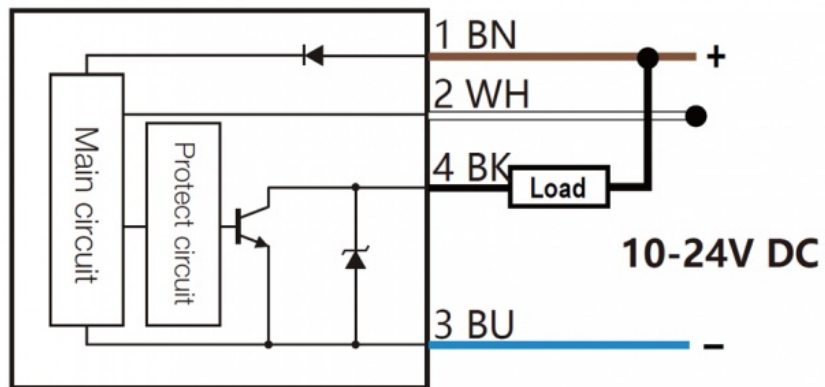
◆ PinPoint LEDs with a laser light spot enable objects to be detected reliably and are therefore suitable for a broad range of applications



NPN	BLQ20S-G300N (Linear beam)
White/black deviation	3%(160mm)
Distance deviation	3%
Sensing range Sn	30-300mm
Current consumption	3mA
Wave length	Laser (655nm)
Power supply	DC 12~24V; ripple :±10%
Response time	0.5ms
Ambient temperature	Operating: -25°C~+55°C; Storage: -40°C+70°C (non-freezing, non-condensing)
IP rating	IEC60529: IP64
Housing material	PBT

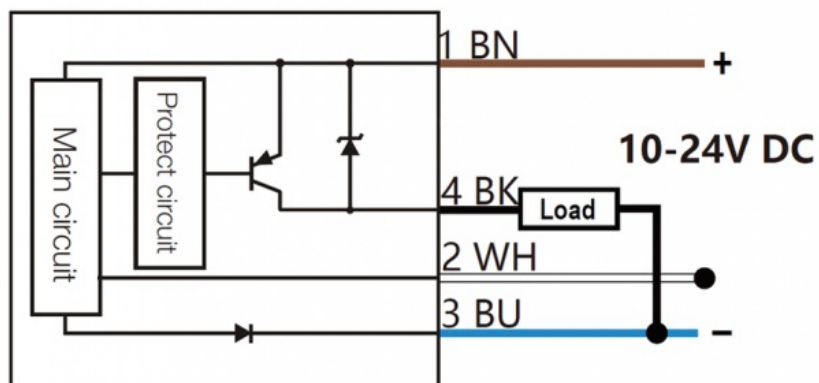
Connection Diagram

DC NPN



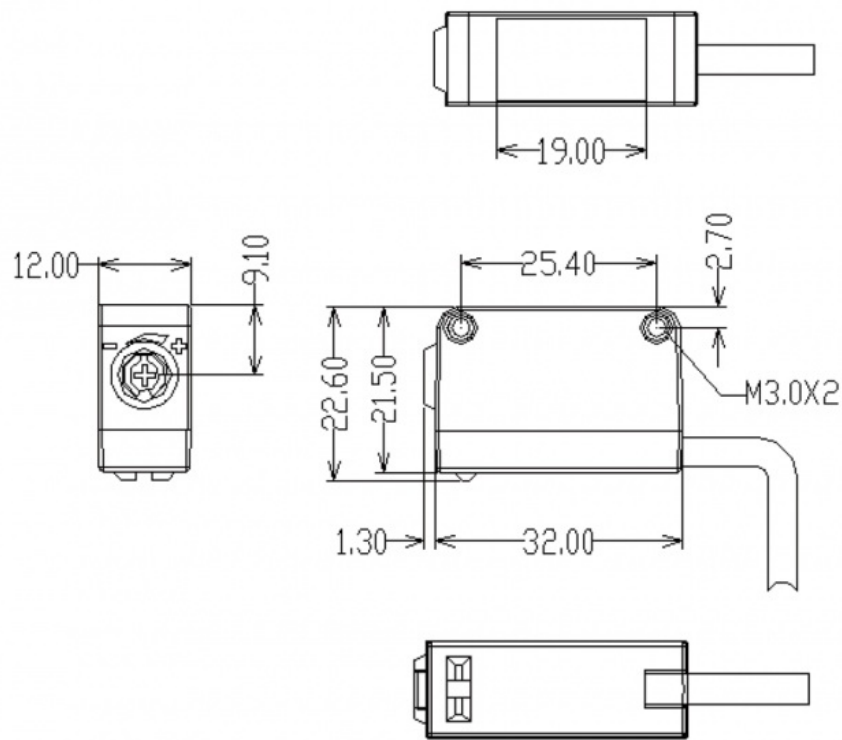
*LIGHT-ON : WH---NC
DARK-ON : WH---0V

DC PNP



*LIGHT-ON: WH---NC
DARK-ON: WH---0V

Dimensional Drawing



(Dimensions in mm)

Applications:

KRONZ Photoelectric Sensors are versatile and reliable devices suitable for a wide range of Product Application Occasions and Scenarios. With its exceptional attributes, including Through-beam Sensing Method, NPN/PNP Output Type, and a Detection Range of 0.1mm to 10mm, these sensors are ideal for various industries and applications.

CMOS Laser Displacement Photoelectric Sensor for Medical and Precision Instruments

Syringe and Vial Dimension Inspection: Measures heights and shapes of plastic or glass containers for pharmaceutical use.

Micro-assembly Tolerance Control: Ensures uniform assembly of tiny mechanical parts in diagnostic and surgical devices.

Plastic Molded Part Surface Inspection: Detects warping or deformities in medical-grade molded components.

KRONZ

ABOUT US

KRONZ is a manufacturing enterprise located in Zengcheng District, Guangzhou City. We focus on providing customers with high-efficiency industrial automation solutions and related industrial products. After many years of innovation and development, KRONZ has complete product processing equipment and a professional team who are proficient in various automation technologies.

In order to improve the quality of products and production efficiency, we continue to introduce advanced production equipment and technology, strengthen investment in research and development. At present, our main products include Industrial Connectors, Inductive Sensors, Capacitive Sensors, Photoelectric Sensors, Ultrasonic Sensors, Industrial power supplies, Industrial fieldbus, RFID recognition systems, Industrial Ethernet Switches

We not only produce the orders of standard products, but also have ability to make customize production based on customer design drawings or samples.

Adhering to the principle of mutual benefit, we provide our customers with competitive prices , and perfect after-sales service. KRONZ's products have been sold in multiple countries, have won the trust and praise of customers. KRONZ expect to collaborate with you.

OUR FACTORY



[illegible]

Logistics and Payment



1. Samples and small orders can be shipped with fast shipment method, by air and by express. Bulk order will ship by sea, by air, by train, by truck etc.

2. We also can send the goods to your agent warehouse.

3. If you need any more shipping method, please feel free to contact with us.





Note:

Due to the wide range of our products, we cannot list all product pictures and corresponding product parameters. If you have other needs, please communicate with me. We can provide supplementary information and technical support.
We Are Happy to Serve You.



KRONZ Kronz (guangzhou) Electronics Co., Ltd.



+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