Slot-Type Photoelectric Sensor NPN BSM-202N Light Source GaAs IR LED 940nm)

Our Product Introduction

Basic Information

- Place of Origin: Guangdong China
- Brand Name: KRONZ
- Certification: CE
- Model Number: BSM-202N
- 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 Mode: Light ON During Power-on, Light OFF During Detection
- Repeatablity: 0.03mm Below
- Switching Capacity: 0~200mA
- Residual Voltage: Below 3V (at Load Current 100mA, With 2m Wire Length)
- Connection Method: Connector Type, Customizable Special Drag Chain Cables
- Protection Circuit: Reverse Polarity Protection、Overcurrent Protection、Short-Circuit Protection
- Insulation Resistance: ≥50 MΩ (measured At DC 500V Megohmmeter) Between Charging Terminal And Housing.
- Ambient Temperature: Operating -25~70°C non-condensing、Ice-resistant
- Ambient Humidity: Operating/Storage Humidity: 35~95% RH (non-condensing)

Product Description

The **BSM-202N** is a compact slot-type photoelectric sensor designed for **precise object detection in automated systems**. Utilizing a gallium arsenide infrared **LED with a 940nm wavelength,** it provides reliable and accurate sensing performance. This model features an NPN open collector output, making it ideal for integration into **a wide range of industrial control circuits.**

Features:
Detection Type: Slot-type through-beam sensor for high-speed object detection
Output Type: NPN open collector
Light Source: GaAs IR LED (940nm) for stable performance and low interference
Slot Width: Optimized for detecting small parts or edges
Fast Response Time: Ideal for high-speed automation environments
U-Shaped Compact Design: Built-in emitter and receiver simplify alignment and installation.
Infrared Light Source: Stable operation under ambient lighting conditions.
Durable Build: Resistant to shock, vibration, and industrial contaminants.
Easy Mounting: No need for separate alignment of emitter and receiver.

Technical Parameters

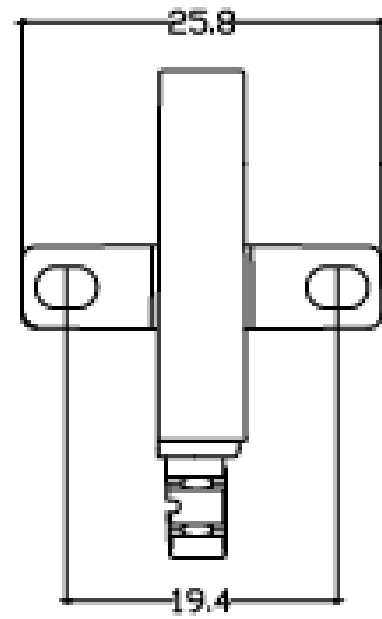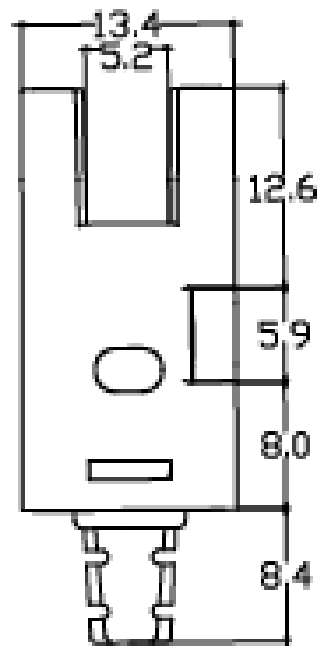|	
Detection Mode	Light ON during power-on, Light OFF during detection
Detected Object	1.2 x 0.8mm Opaque Detection Object
Light Source	GaAs IR LED (940nm)
Response Frequency	5kHz
Repeatablity	< 0.03mm below
Switching Capacity	0~200mA
Residual Voltage	Below 3V (at load current 100mA, with 2m wire length)
Connection Method	Connector type, customizable special drag chain cables
Operation Mode	Equipped with dual outputs (ON when light is blocked, ON when light is received)
Protection Circuit	Reverse Polarity Protection、Overcurrent Protection、Short-Circuit Protection
Ambient Temperature	Operating：-25~70°C（non-condensing、Ice-resistant)
Ambient Humidity	Operating/Storage Humidity: 35~95% RH (non-condensing)
Temperature Effect	Temperature range: -25 to +70°C; Detection distance variation within ±10% per 20°C change
Voltage Effect	Under rated power supply voltage fluctuation within ±15%, detection distance varies within ±1%.
Insulation Resistance	≥ 50 MΩ (measured at DC 500V megohmmeter) between charging terminal and housing.
Withstand voltage	AC 1000V, 50/60Hz, 1 minute (between charging part and housing)
Vibration Resistance	10-55Hz with 1.5mm amplitude, 2 hours each in X, Y, and Z directions
Shock Resistance	500 m/s² shock applied 10 times each in X, Y, and Z directions
Protection Level	IP65
Housing material	PBT

Product Images

Product Dimension Drawing

BSM-202

Company Profile

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

Certifications

Logistics and Payment

PayPal **WESTERN UNION** **VISA T/T**

TNT UPS SF EXPRESS 顺丰速运

FedEx Express EMS DHL

1. Samples and small orders can be shipped with fast shippment 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.

CONTACT US

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