

# Product description book

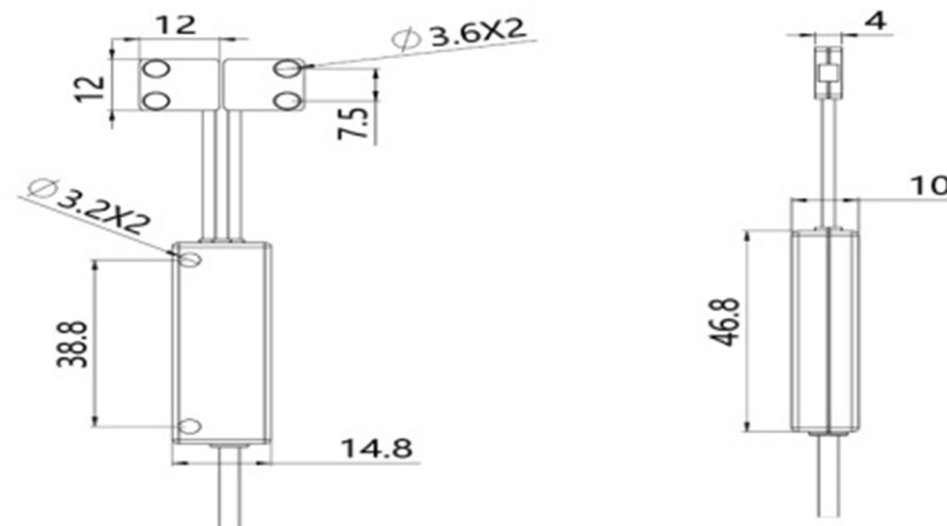
## Product description



### Characteristics:

1. The amplifier separation type is adopted.
2. The sensor head is small in size and easy to install.
3. Multi-distance optional, suitable for detecting small objects.
4. Metal shell, durable.

### Installation dimensions:



**GD series amplifier separation type high sensitivity**

**photoelectric sensor**

GD1-C100/300N, GD1-C100/300EN

**G5-A Type Selection Reference Table:**

type	Classification model	Detection mode	examination area	Output mode	Detection function					
					Highly reflective object	Small object	Opaque or translucent objects	Transparent object	Gloss detection	Objects with large differences in shape
GD1-C	GD1-C100N	Opposite type	100mm	NPN	o	1mm	o			o
	GD1-C300N		300mm	NPN	o	2mm	o			o
	GD1-C100EN		100mm	NPN	o	0.2mm	o			o
	GD1-C300EN		300mm	NPN	o	0.2mm	o			o

**G4-A specification parameters:**

type		Opposite type		Adjustable correlation type	
model	NPN	GD1-C100N	GD1-C300N	GD1-C100EN	GD1-C300EN
	PNP	GD1-C100P	GD1-C300P	GD1-C100EP	GD1-C300EP
	NPN+PNP	GD1-C100NP	GD1-C300NP	GD1-C100ENP	GD1-C300ENP
Detection distance		100mm	300mm	100mm	300mm
Detectable object		Opaque or semi-transparent material			
light source		Infrared LED			
Reaction time		0.5ms			
Sensitivity adjustment		Unadjustable		Set key	
Minimum detection size		1mm	2mm	0.2mm	0.2mm
operator schema		LIGHT-ON/DARK-ON (button automatic adjustment, long press for 10 seconds and automatic conversion)			
Indicator light		And power supply: red LED, stable operation: green LED			
Control output		Or NPN PNP: 100mA(40V) max, residual voltage: 1V max.			
protective circuit		Reverse current protection, overcurrent protection, overvoltage protection			
Power Supply		12 to 24 VDC 10%			
Consumption current		Max 20mA			
the protection grades		IP-66			

Ambient luminosity	Incandescent lamp: 5000lux max, daylight: 20000lux max	
ambient temperature	"No freezing at -20 to +55°C"	
relative humidity	35 to 85%, no condensation	
shell	metal	metal
weight	About 35g	About 35g

**Wiring mode:**

Brown line-10 ~ 24vdc

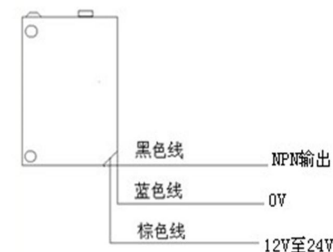
Blue line-0vdc

Black line ----NPN output

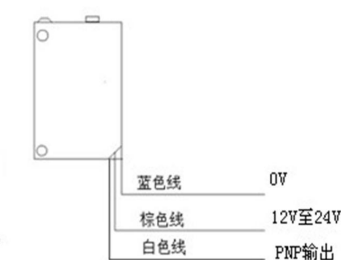
White line ----PNP output

**接线图**

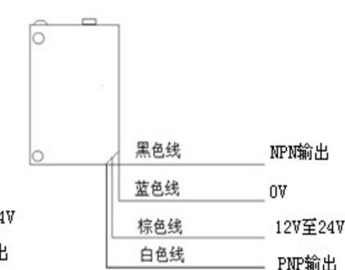
**NPN:**



**PNP:**



**NPN+PNP**



**Setting method:**

1. Set the distance and sensitivity, install the transmitter and receiver of the sensor in alignment, press the button (the pressing time is less than 1 second), and the indicator light flashes rapidly for 6 times, then the setting is successful. You can enter normal operation.

2. Normally open and normally closed switching: press and hold the button for 15 seconds, and the color of the indicator light changes after releasing, so that the normally open and normally closed switching can be realized automatically.

**Use tips and suggestions:**

1. Please do not direct strong light into the receiving and emitting mirror of the sensor.
2. During use, if the receiving and emitting mirror surface of the sensor is condensed or contaminated with oil or dust, please wipe the mirror surface with clean, dry and soft cloth, which can restore normal work.
3. If the sensor works in a working environment where oil stains or dust spread, please keep the mirror of the sensor clean.
4. If there are frequent large-scale light changes in the use environment, or there are many highly reflective items, or people or materials will pass through the opposite side of the sensor, it is recommended to set a fixed light shield on the opposite side of the sensor to ensure the reliability.

**product assurance**

1. Shelf life: From the date of shipment of this product, the shelf life is one year. If the product fails due to quality problems, the product will be exchanged for free within one year.
2. Non-warranty scope: the product performance and specifications are defined in the manual, and only the specifications and performance of this manual are used for warranty. Our company can provide technical support and suggestions for improvement for customers' improper use or mismatch of specifications and models, but it does not promise unconditional warranty.

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