

Product description book

Product description



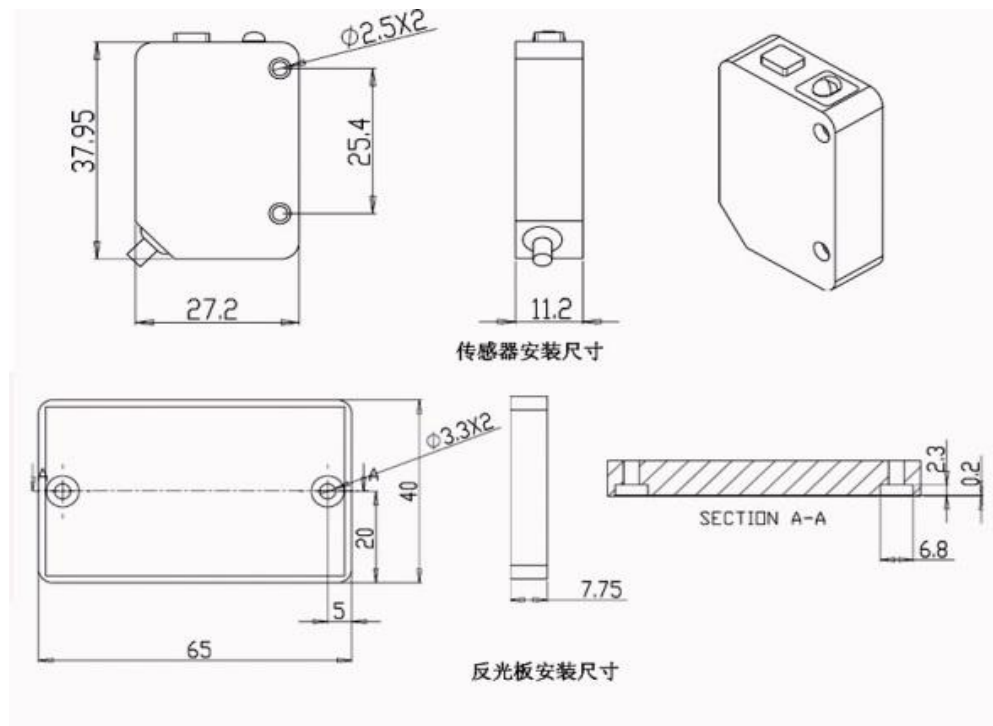
G3 series transparent detection photoelectric sensor

G3-A100/300 (N/P/NP), G3-B500/1K/2K(N/P/NP)

Characteristics:

1. Use all key settings.
2. Adopt infrared light source.
3. Suitable for detecting objects with different shapes.
4. Suitable for detecting transparent objects.

Installation dimensions:



G3 Series Selection Reference Table:

type	Classification model	Detection mode	Detection distance	Output mode	light source	Detection function						characteristic	app; application							
						Highly reflective object	Small object	Opaque or translucent objects	Transparent object	Gloss detection	Objects with large differences in shape									
G3-A	G3-A100N	diffuse reflection	2-100mm	NPN output	infrared light	o	o	o	The reflectivity is not less than 6%	o	o	Infrared, key setting, can detect transparent objects at a long distance.	Suitable for detecting transparent objects that are not easily deformed, such as glass.							
	G3-A100P			Output PNP																
	G3-A100NP			N+P output																
	G3-A300N		5-300mm	NPN output																
	G3-A300P			Output PNP																
	G3-A300NP			N+P output																
G3-B	G3-B500N	Regression reflection	100-500mm	NPN output								infrared light	o	o	o	The reflectivity is not less than 2%	o	o	Infrared, key setting, can detect extremely transparent objects with no less than 2% reflection.	It is suitable for detecting any transparent objects, especially transparent objects that are easily deformed, such as films.
	G3-B500P			Output PNP																
	G3-B500NP			N+P output																
	G3-B1KN		200-1000mm	NPN output																
	G3-B1KP			Output PNP																
	G3-B1KNP			N+P output																

G3 series specification parameters:

type		Diffuse reflection type (suitable for detecting transparent objects that are not easily deformed)		Regression type (suitable for detecting easily deformable transparent objects)	
model	NPN	G3-A100N	G3-A300N	G3-B500N	G3-B1KN
	PNP	G3-A100P	G3-A300P	G3-B500P	G3-B1KP
	NPN+PNP	G3-A100NP	G3-A300NP	G3-B500NP	G3-B1KNP
Detection distance	100mm	300mm	500mm	1m	
Detectable object	The reflection is not less than 8%		The reflectivity is not less than 2%		
Tolerance distance	20% of the maximum detection distance.				
Reaction time	0.5ms max				
light source	infrared light				
Sensitivity adjustment	Set key				
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	Maximum 25mA				
the protection grades	IP-65				
Ambient	Incandescent lamp: 5000lux max, daylight: 20000lux max				

luminosity	
ambient temperature	"No freezing at -20 to +55°C"
relative humidity	35 to 85%, no condensation
shell	ABS
weight	21g (including 2m connector cable)

Wiring mode:

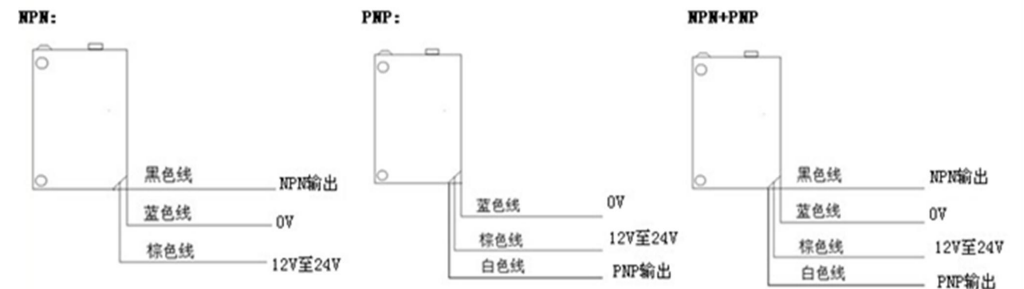
Brown line-10 ~ 24vdc

Blue line-0vdc

Black line ----NPN output

White line ----PNP output

接线图



Setting method:

1. Diffuse reflection type: After installation and fixation, aim the detection surface of the sensor at the detected object, press the setting button for 1~3 seconds and then release, and the indicator light flashes rapidly for six times. After the indicator light is stable, the set object can be stably detected at the set position.
2. Regression type: aim the sensor at the reflector, press and hold the button for 1~3 seconds, then release it, and the indicator light flashes rapidly for six times.

After the indicator light is stable, the set object can be stably detected between the reflector and the sensor.

3. Normally open and normally closed switch: hold the button for 10-15 seconds and then release it, the indicator light flashes quickly, and the mode switch is successful.

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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