

Product description book

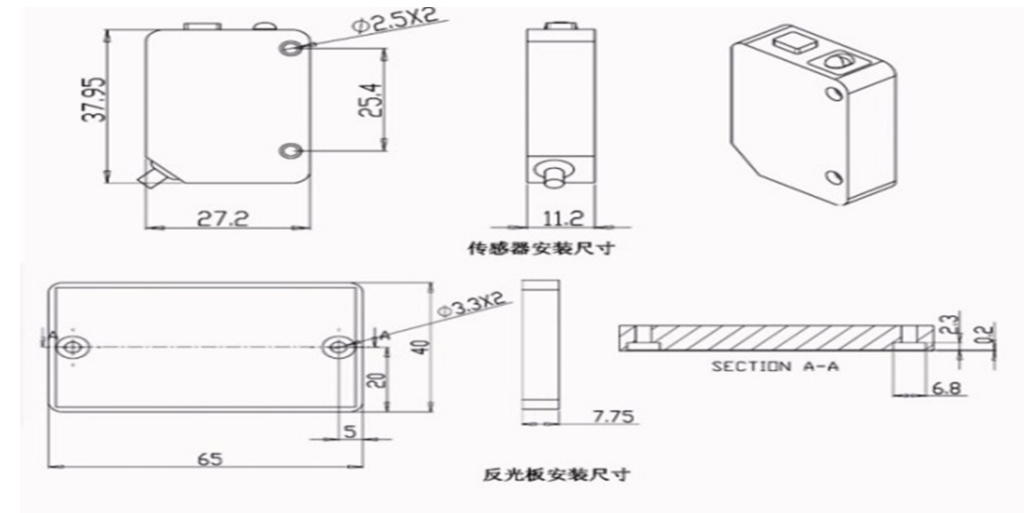
Product description



Characteristics:

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

Installation dimensions:



G5 series special photoelectric sensor

G5-A1K/2K (N/P/NP), G5-B1KE(N/P/NP), G5-A100S/300S(N/P/NP), G5-C100T/1KT(N/P/NP)

G5-A Type Selection Reference Table:

type	Classification model	Detecti on mode	Detection distance	Output mode	light source	Detection function						characteristic	app; application
						Highly reflective object	Small object	Opaque or translucent objects	Transp arent object	Black and white detection distance difference	Gloss detecti on		
G5-A	G5-A1KN	Long-distance diffuse reflectio n	1m	NPN output	infrared light	o	1mm	o	o	Black and white equidistant		Infrared, key setting, long-distance diffuse reflection	Suitable for environments requiring long-distance diffuse reflection detection.
	G5-A1KP			Output PNP									
	G5-A1KNP			N+P output									
	G5-A2KN		2m	NPN output									
	G5-A2KP			Output PNP									
	G5-A2KNP			N+P output									
	G5-A100SN	Small beam diffuse reflectio n	2-100mm	NPN output									
	G5-A100SP			Output PNP									
	G5-A100SNP			N+P output									
	G5-A300SN		5-300mm	NPN output									
	G5-A300SP			Output PNP									
	G5-A300SNP			N+P output									
	G5-A100TN	Two-stage setting type	2-100mm	NPN output									
	G5-A100TP			Output PNP									
	G5-A100TNP			N+P output									
G5-A1KTN	1m		NPN output										
G5-A1KTP			Output PNP										
G5-A1KTNP			N+P output										

G5-B Type 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	Black and white detection distance difference	Gloss detection	Objects with large differences in shape								
G5-B	G5-B1KEN	Polarization regression reflection	1m	NPN output	infrared light	o	Detect 1mm minimum object						Infrared, key setting, polarization regression detection mode	There is almost no blind area regression reflection.						
	G5-B1KEP			Output PNP																
	G5-B1EKNP			N+P output																
	G5-B7KN	Long distance regression reflection	7m	NPN output		o													Keywords infrared, key setting, small-angle transmitting tube, long-distance regression detection mode	Regression reflection detection for the longest distance of 7 meters
	G5-B7KP			Output PNP																
	G5-B7KNP			N+P output																

G5 specification parameters:

type		Long-distance diffuse reflection type (not affected by color)		Small beam diffuse reflection		Polarization regression reflection	Long distance regression reflection
model	NPN	G5-A1KN	G5-A2KN	G5-A100SN	G5-A300SN	G5-B1KN	G5-B7KN
	PNP	G5-A1KP	G5-A2KP	G5-A100SP	G5-A300SP	G5-B1KP	G5-B7KP
	NPN+PNP	G5-A1KNP	G5-A2KNP	G5-A100SNP	G5-A300SNP	G5-B1KNP	G5-B7KNP
Detection distance		100mm-1000mm	150mm-2000mm	100mm	300mm	1m	7m
Detectable object		Opaque material					
Tolerance distance		20% of the maximum detection distance.					
Reaction time		0.5ms max					
light source		infrared light					
Sensitivity adjustment		Set key					
Typical inspection object size		100mm*100mm(1m)	10mm*10mm	30mm*30mm	1mm	20mm	
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-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
weight	75g (including 2m connector cable)

Wiring mode:

Brown line-10 ~ 24vdc

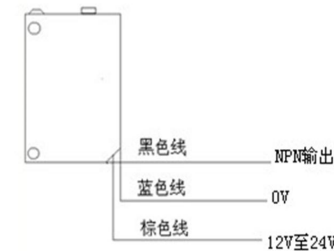
Blue line-0vdc

Black line ----NPN output

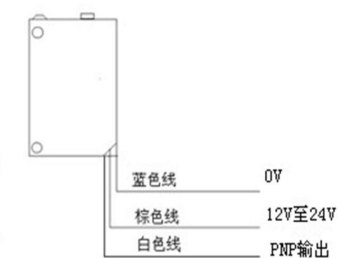
White line ----PNP output

接线图

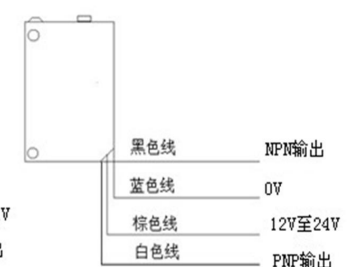
NPN:



PNP:



NPN+PNP



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.

Setting method:

1. Aim the sensor at the detected object, press and hold the button for 3 seconds and then release it. The indicator light flashes rapidly for 6 times. After the indicator light is stable, the set object can be stably detected at the set position.
2. Two-stage detection distance setting method: aim the sensor at the detected object, first place the detected object at the near end, press and hold the button for 3 seconds, let go, then move the detected object to the far end, press and hold the button for 1 second, let go, and then the sensor can be sensed between the near end and the far end, while the rest areas are not sensed.
3. Normally open and normally closed switch: hold down the button for 10~15 seconds and then release it. The indicator light flashes rapidly for 6 times, 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

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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Tel: +86-0755-29898410 /+86-0755-29898460

Email: ron@xaori.net

Address: Kunhong Building, No. 38, Xinxhe Avenue, Xinqiao Community, Shajing Street, Baoan District, Shenzhen, Guangdong, China