

LGA60P1 Series

270° Laser Scanner



Surface coating technology

Greatly reduce dust adhesion and ensure accurate operation



Multiple echo processing technology

Performs well in complex environment



Response quickly

33ms quick scanning speed



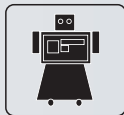
Strong vibration resistance

Special internal design ensures its stable performance in vibrate environment

Application Case



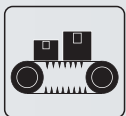
Forklift



Robots



Robotic Arm



AGV



Area Protection



Product Parameter

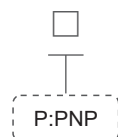
Product Feature	
Detection Distance	0.05~10m (reflectivity 90%)
	0.05~8m (reflectivity 10%)
Detection Angular	270°
Wavelength	905nm
Product Performance	
Response Time	Typical data 50ms
Basic Tolerance	40mm
Statistical Tolerance	30mm
Channel	64 (3 detection area in each channel)
Detection Output Time Delay	0~500ms (can be set in range)
Detection Holding Time Delay	0~500ms (can be set in range)
Detection Product Filter Anguler	0.5°~5° (can be set in range)
Port	
Configured Port	1 (Micro-USB)
Switch Quantity Input	6 PNP
Switch Quantity Output	4 (3 detection signal, 1 fault signal), single loop load capacity 100mA
Indicator LED	4 (3 detection LED, 1 status LED)
Electrical Performance	
Working Voltage	DC18-32V
Consumption Current	60mA typical (under output load)
Ambient Environment	
Object Reflectivity	5~1000%
Working Ambient Environment	-10~50°C
Light Immunity	Less than 15000 Lux
Product Size	50* 50* 76.3mm
Cables	Micro-USB wire 1m, power & IO wire 1m

Laser Scanner Model Description (e.g.: LGA60P1-UB)

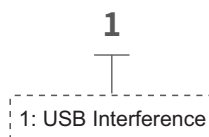
Series

LGA60

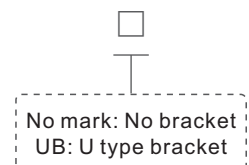
Output



Communication

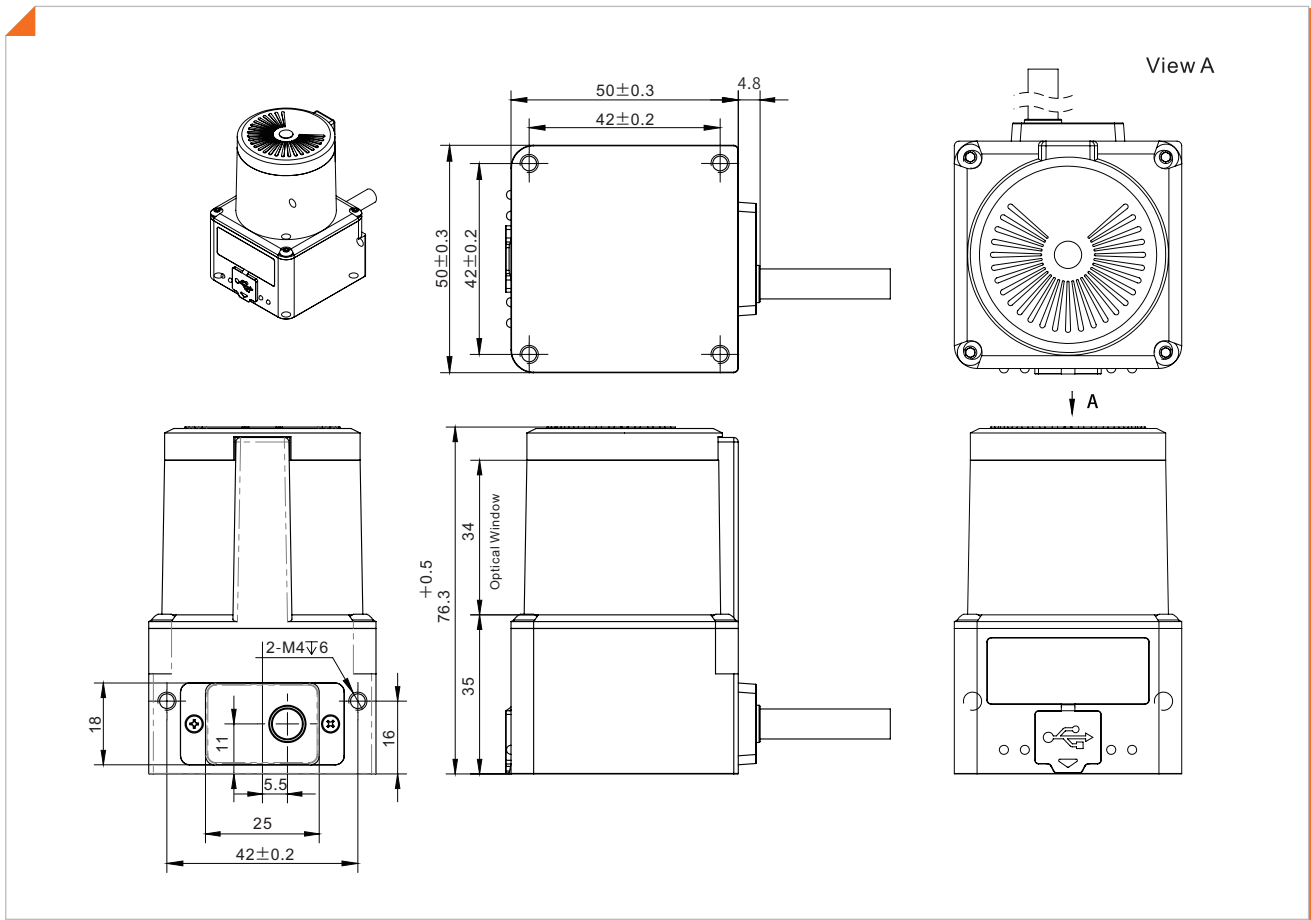


Bracket



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Product Size

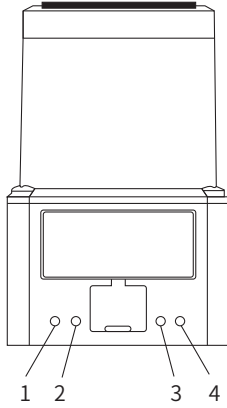


Bracket Option

No	Brackets	Picture
1	U type bracket – UB	

Wiring

LED Status



No	Indicator	Function
1	Power LED	When power on, green LED light on; When internal fault, power LED blink.
2	OUT3 LED	Any intrusion in OUT3 detection area, red LED on. Otherwise, LED off.
3	OUT2 LED	Any intrusion in OUT2 detection, yellow LED on, otherwise, LED off.
4	OUT1 LED	Any intrusion in OUT1 detection, orange LED on, otherwise, LED off.

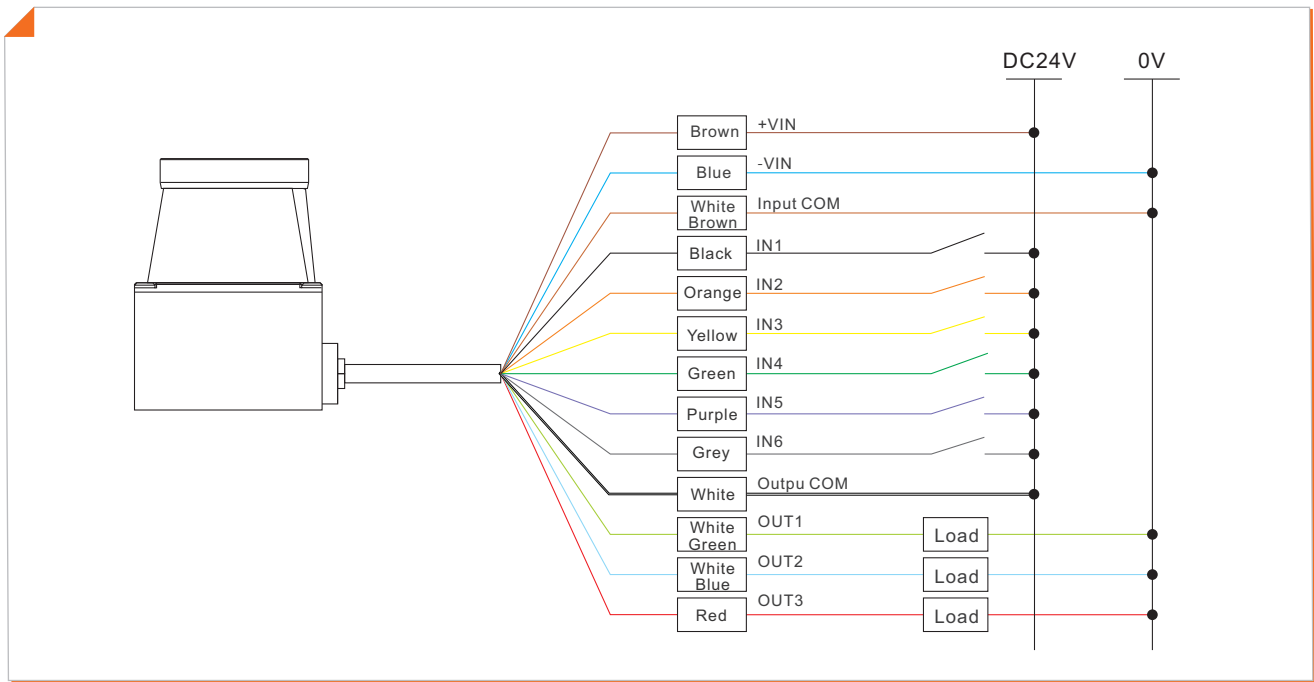
Wire Specification

- Sensor with a 14 pin leading wire, the specification of each pin as below sheet.

Color	Type	Signal	Function
Brown	Power	DC24V	Power Positive 18-32V
Blue	Power	DC0V	Power Negative
White & Brown	COM	INCOM	Input COM port
Black	Input	IN1	Inport 1
Orange		IN2	Inport 2
Yellow		IN3	Inport 3
Green		IN4	Inport 4
Purple		IN5	Inport 5
Grey		IN6	Inport 6
White	COM	OCOM	Output COM
White & Green	Output	OUT1	Port action when detect object in area 2
White & Blue		OUT2	Port action when detect object in area 1
Red		OUT3	Action when detect object in protection area
White & Red		Error OUT	Action when sensor with fault

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Wiring

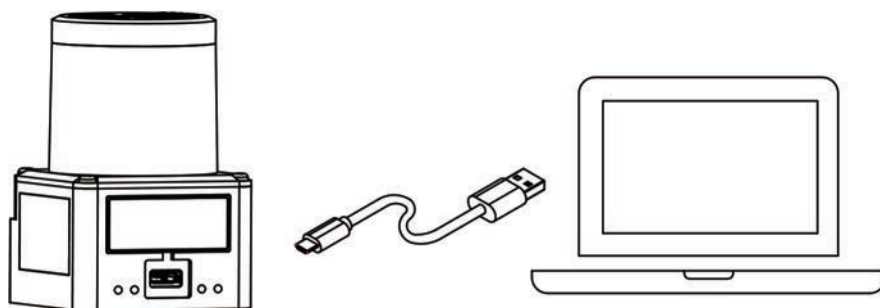


Output Signal Wiring

Port	Function
OUT1	Used for warning or slow speed area
OUT2	Used for stop of normal obstacle
OUT3	Used for emergency stop of close obstacle
The output is an open collector (PNP)signal, using optocoupler isolation	
The maximum load capacity of the output port is 100mA	
The output port corresponds to the graph drawn of software	

Configured Wiring

- Use Micro-USB port to connect sensor with computer.



Noted: the mistake orientation of data cable will damage the port of sensor. Use a cable that can transmit data, a charging cable can not connect successfully.