

Industrial Door Sensors Catalog



Giants Sensor Technology

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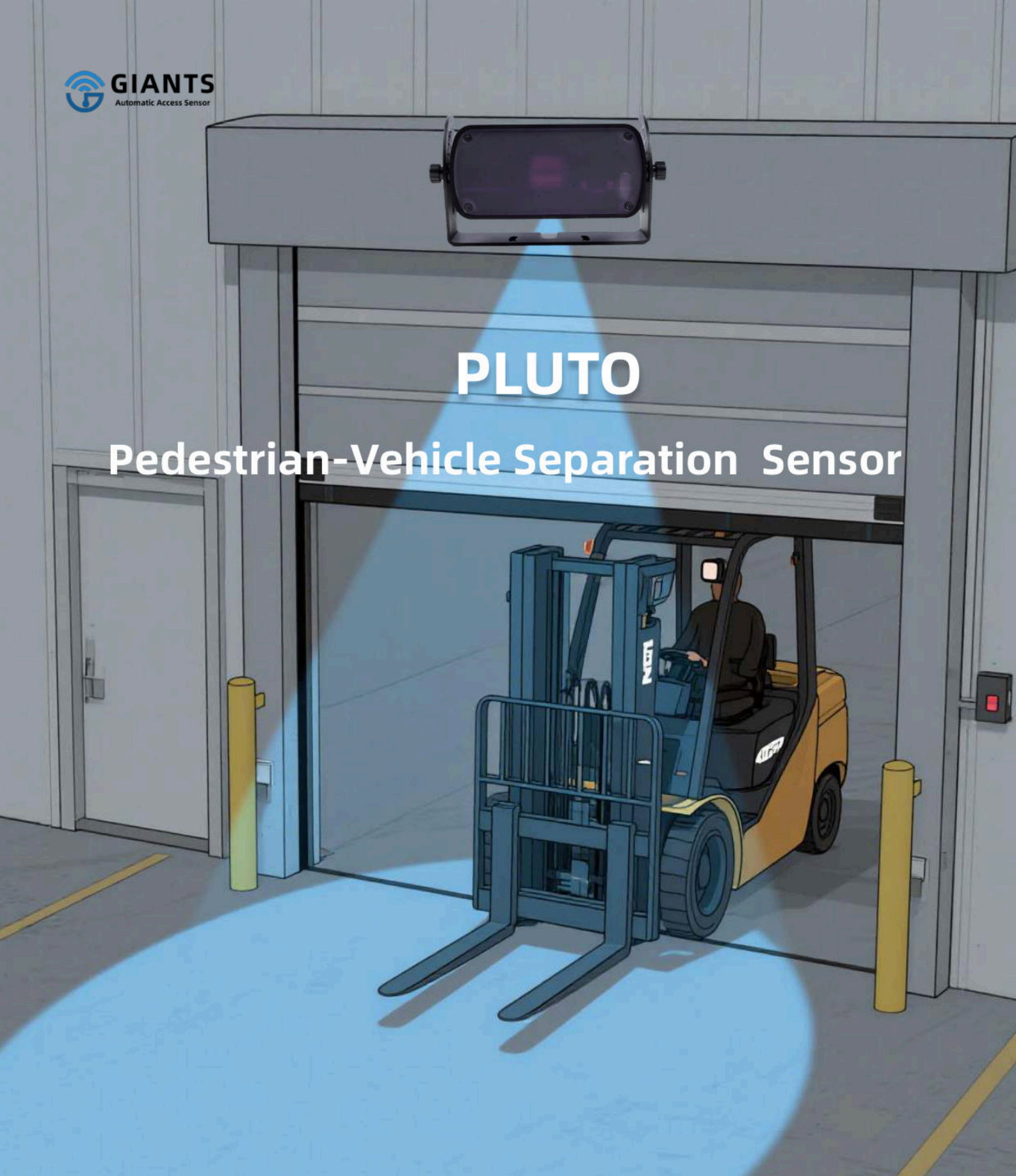


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PLUTO

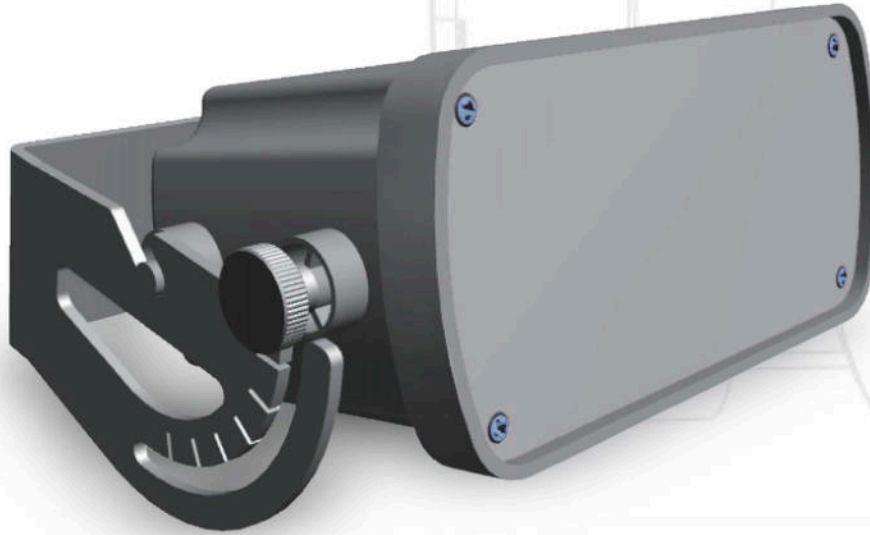
Pedestrian-Vehicle Separation Sensor



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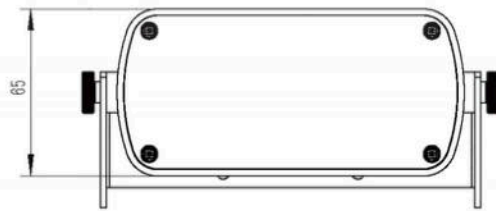
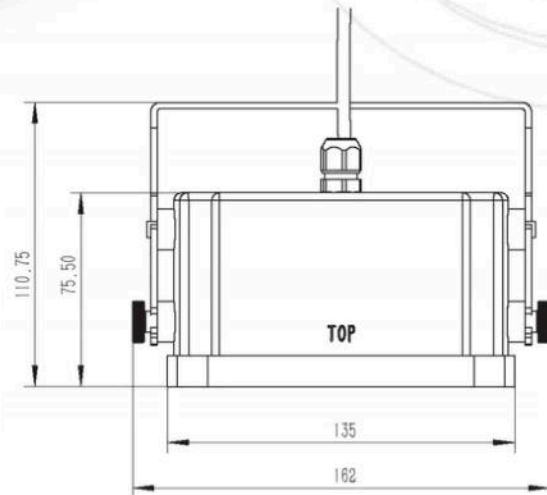
PLUTO

Industrial Radar



Features

- Two independent outputs, separate detection of pedestrians and vehicles
- Cross traffic masking
- Detects slow-moving vehicles
- Mounting height: 2.5m-9m
- Detection area max. 6.5mx8.5m



Advantages

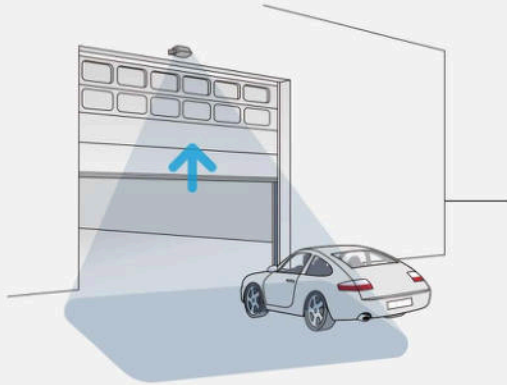
- IP65 protection rating
- Quick setup by App



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Applications

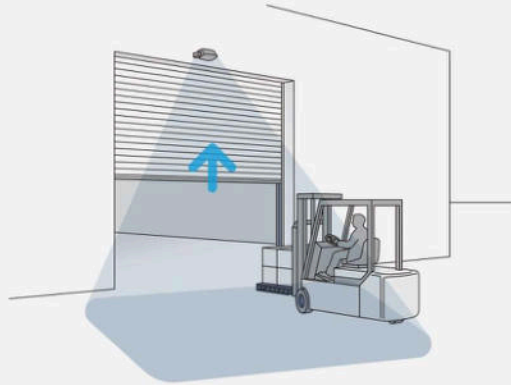
Fast door



Solutions and Advantages

- Reliable opening to ensure passage
- Filtering out lateral vehicles to reduce unnecessary door openings
- Identifying direction to minimize door openings
- Saving energy for the factory

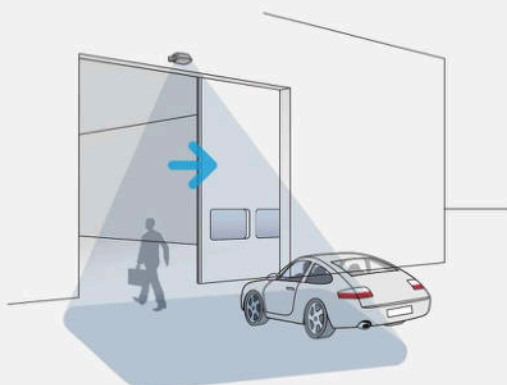
Roller shutter



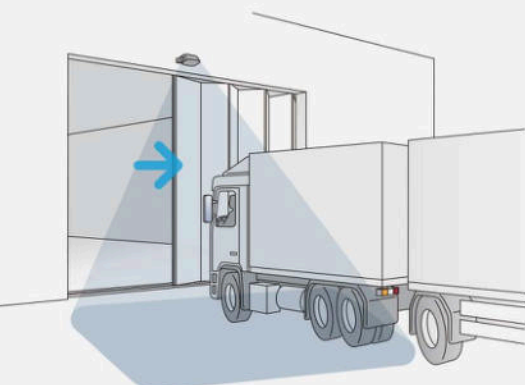
Solutions and Advantages

- Large detection area
- Fine-tuned with 9-level detection zones
- Recognizes humans or vehicles and selects appropriate door opening
- Can achieve partial door opening for pedestrians and full opening for vehicles

Sliding door



Cold storage door



Giants Sensor Technology

Technical data

Application technology

Doppler radar

Transmission frequency

24.125 GHz

Transmission power

<20dBm

Detection height

2.5m to 9m

Angle adjustment

0° - 180° longitudinal

Detection speed

5 cm/s ~ 25 km/h

Operation voltage

12 ~ 36 V AC/DC

Operation current

Max. 75 mA

Temperature range

- 30 °C to + 60 °C

Protection grade

IP65

Output

Max. 48 VAC/DC, Max. Current 1A

External dimensions

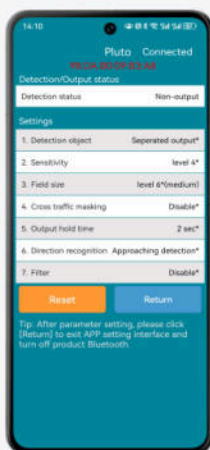
162mm x 110mm x 65mm

Cable length

6m

Sensor weight

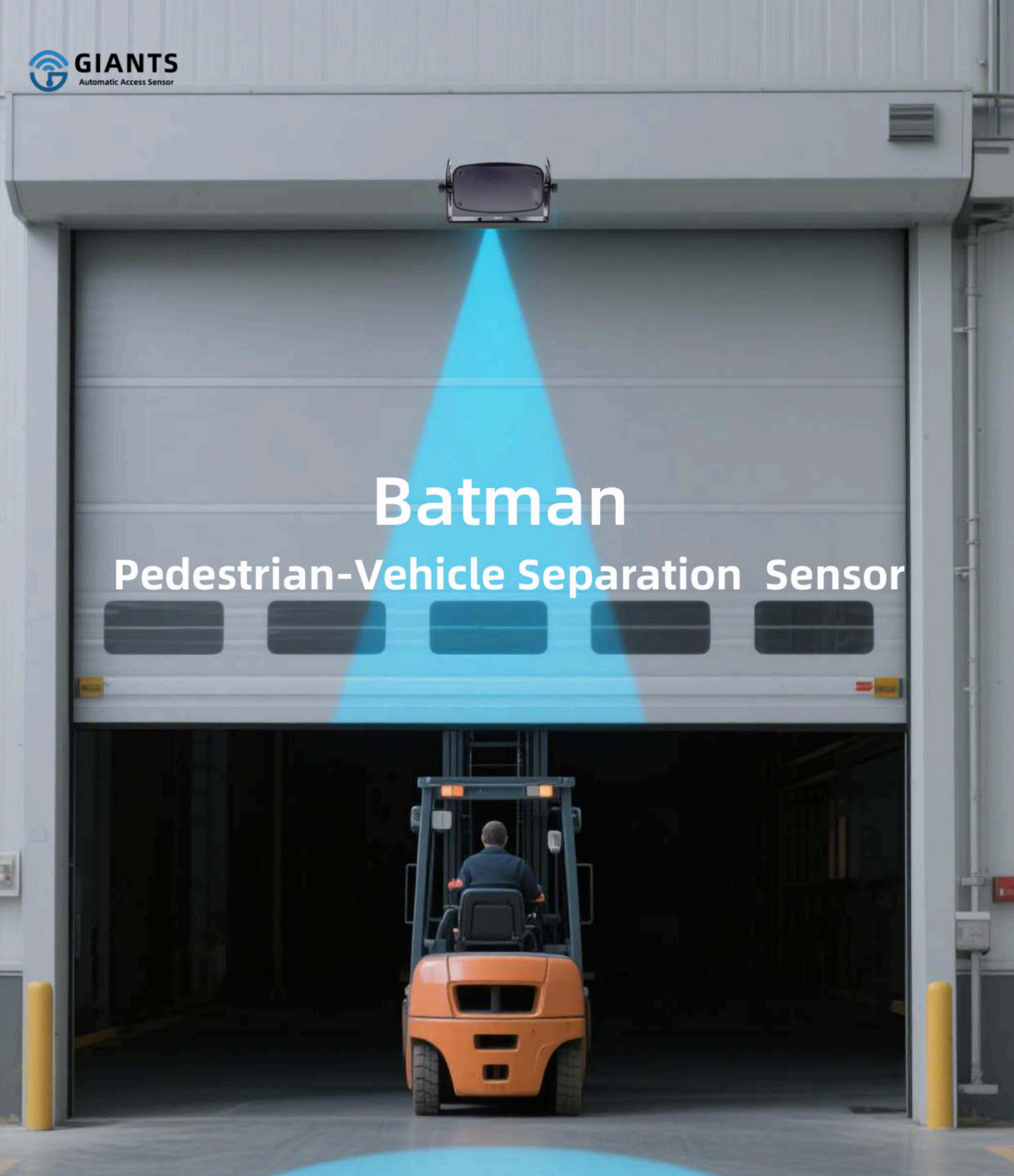
600 g



Get "Giants Sensor" App on



Giants Sensor Technology

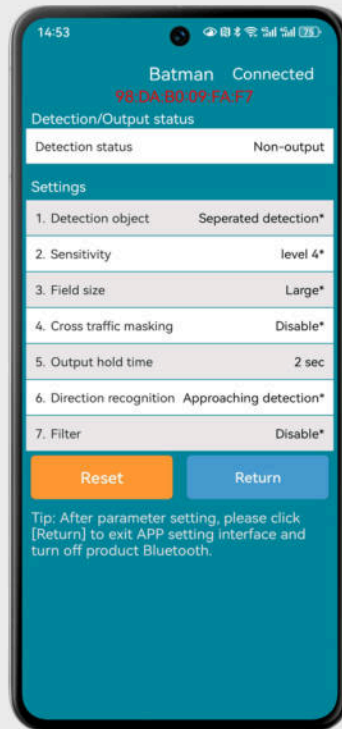


Batman

Pedestrian-Vehicle Separation Sensor

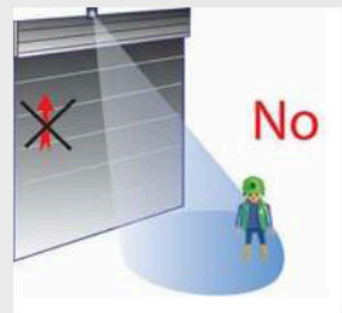
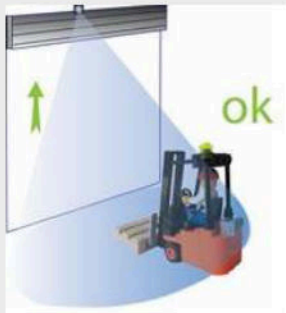
Giants Sensor Technology

Features

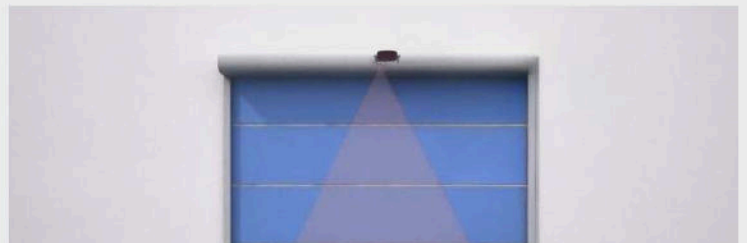


- APP settings
- Status
- Reset
- Return
- IP65

- Detection object
- Sensitivity
- Hold time
- Field size
- Direction
- Filter



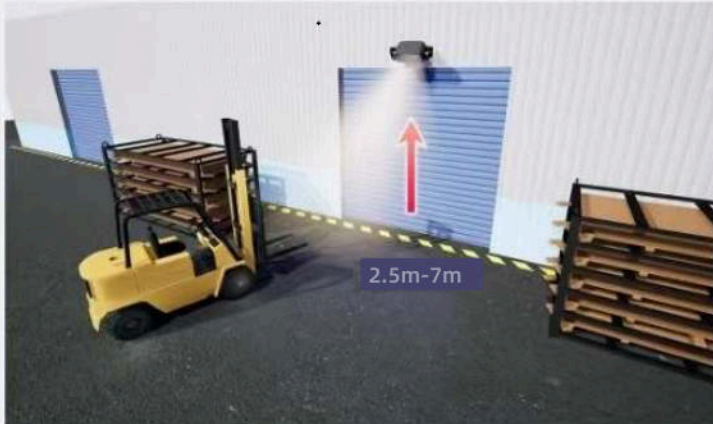
- Pedestrian-Vehicle Separation Detection
- Cross traffic masking



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Performance

➤ Mounting height 2.5m to 7m



➤ 3 optional detection zones



➤ Alternative product to loop detector



➤ Not affected by rainy or snowy weather



Parameters

Application technology

Doppler radar

Transmission frequency

24.125 GHz

Transmission power

<20dBm

Detection height

Operation current

Max. 75 mA

Temperature range

- 30 °C to + 60 °C

Protection grade

IP65

Output

Giants Sensor Technology

Applications

➤ Industrial door



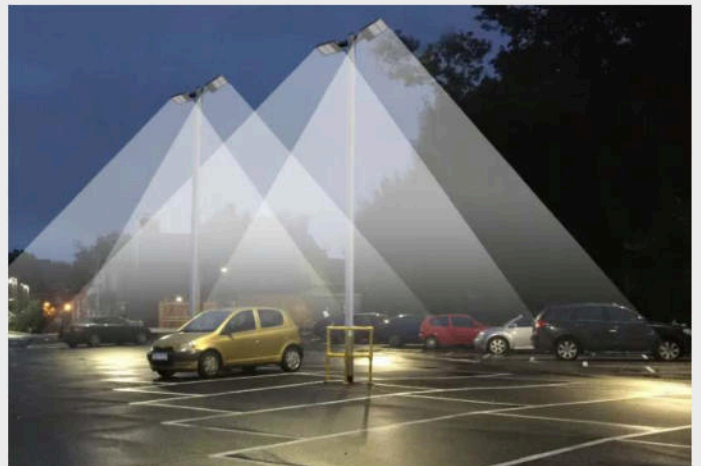
➤ Parking lot door



➤ Gate



➤ Intelligent control



Wiring



➊ Power Supply
12-36V AC/DC

➋ Output
Green LED

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Pano

Industrial Door Motion Sensor



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Pano Features



APP Settings ✖

Effortless Convenience

Basic Function

- Switch ON/OFF
- Output test
- Status
- Reset
- Quit



Deep Function

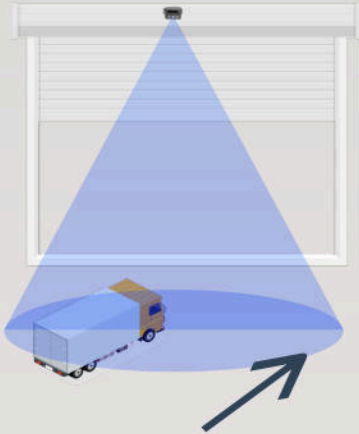
- Sensitivity
- Directions
- Filter
- Output
- Hold time

Giants Sensor Technology

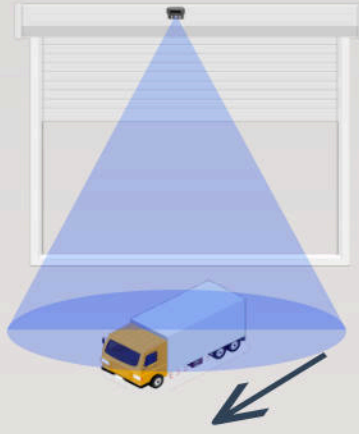
Direction Recognition →

3 Direction Options

➤ Approaching



➤ Leaving



➤ Bidirectional



Parameters 🔗

Technology
Doppler radar
Transmission frequency
24.125 GHz
Transmission power
<20dBm
Detection height
2 m to 10m
Angle adjustment
0° - 90° longitudinal
Detection speed
5 cm/s ~ 60 km/h
Operation voltage
12 ~ 36 V AC/DC

Operation current
Max. 75 mA
Temperature range
- 30 °C to + 60 °C
Relative humidity
0% to 95%, no condensation
Protection grade
IP65
Output
Max. 48 VAC/DC, Max. Current 100mA
External dimensions
75mm x 45mm x 75mm
Cable length Sensor weight
3m 260g

Wiring 🔗



Order information 🛒



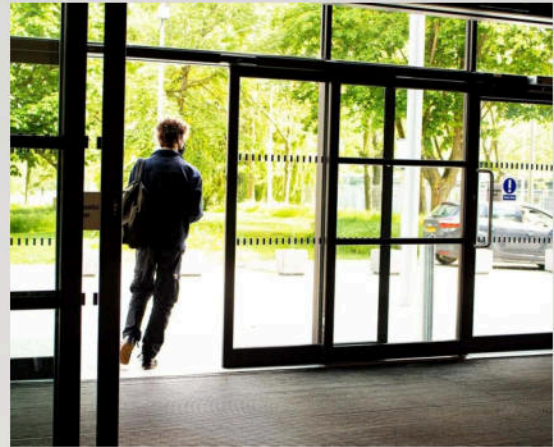
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Applications

Automatic access and intelligent control



Industrial door activation



Pedestrian door activation



Intelligent control



Security surveillance

Quick setup 



"Giants Sensor" App

Giants Sensor Technology

WSD-002

**Wireless pressure wave/
safety edge switch
2-in-1**



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WSD-002 Wireless pressure wave/safety edge switch

- **Battery Standby Switch**

Extends Lifespan

- **2-in-1 wireless pressure wave /touch-sensitive Sensor**

High Versatility

- **Fault output**

Increase safety



- **10ms response time**

Quick reaction

- **LED&buzzer dual
Reminder for Low Battery**

Easy Identification

- **Coding push button**

No need open the cover

Applications



Fast door

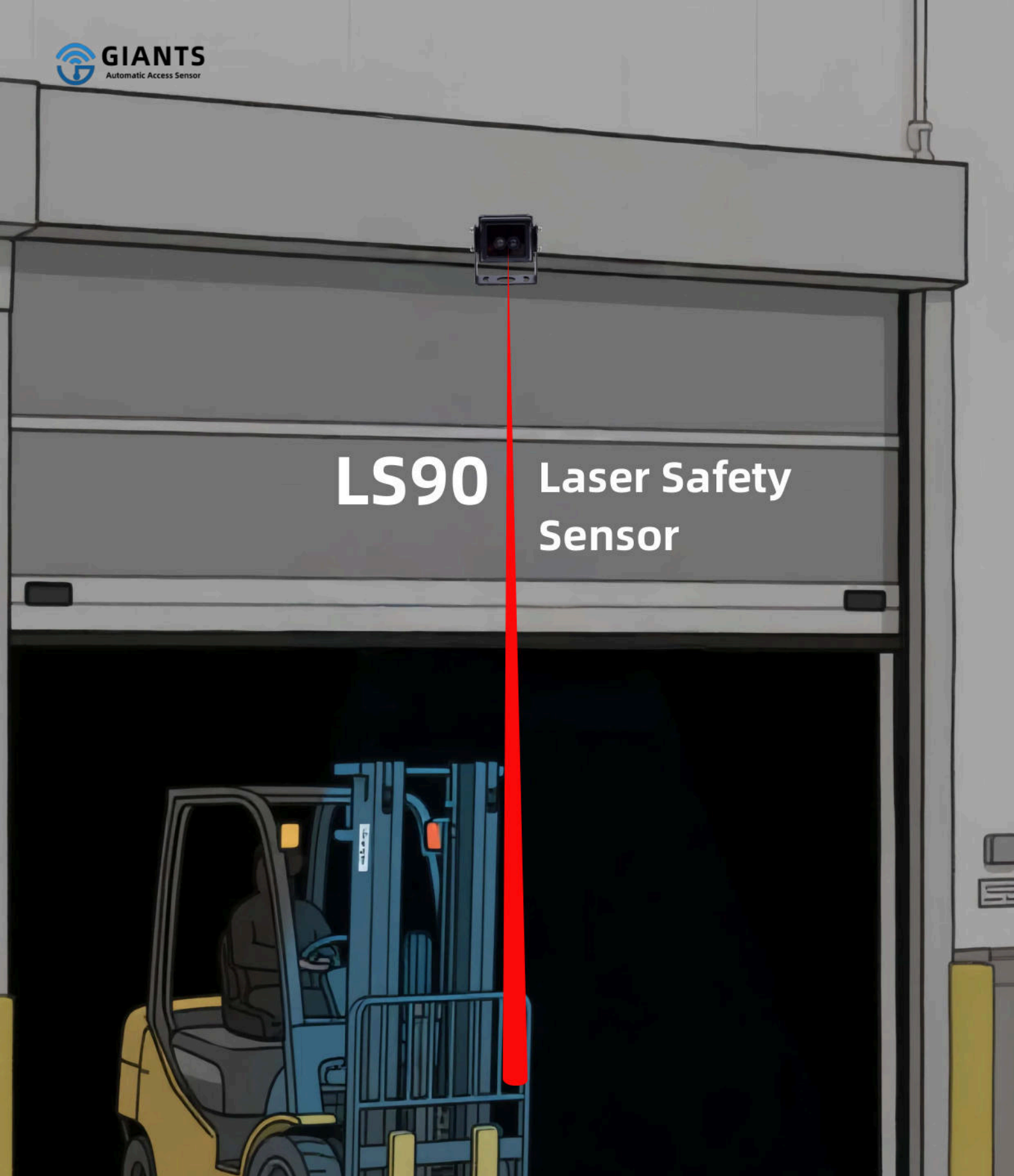


Roller shutter



Garage door

Giants Sensor Technology



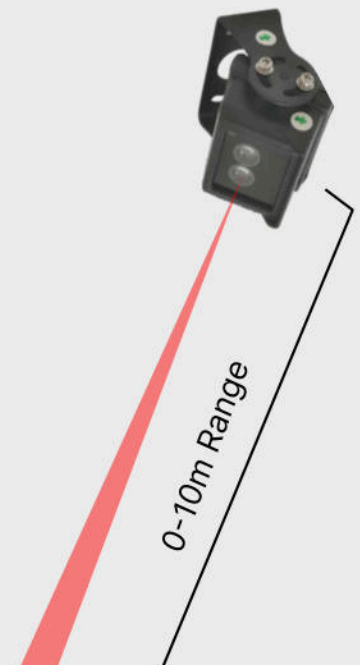
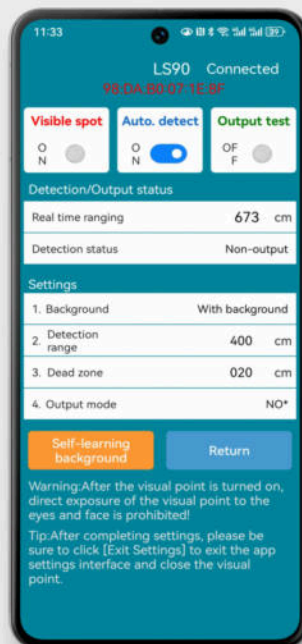
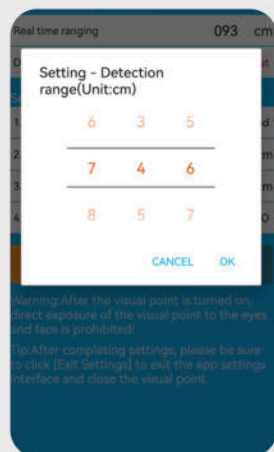
LS90 Laser Safety Sensor

Giants Sensor Technology

LS90 Features

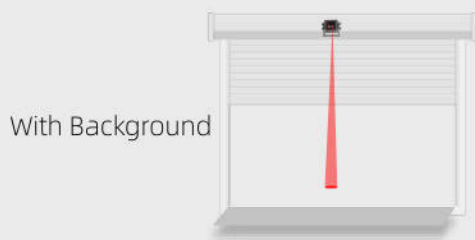


APP Settings ✂



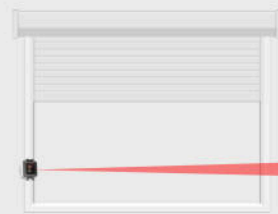
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Background ↓



With Background

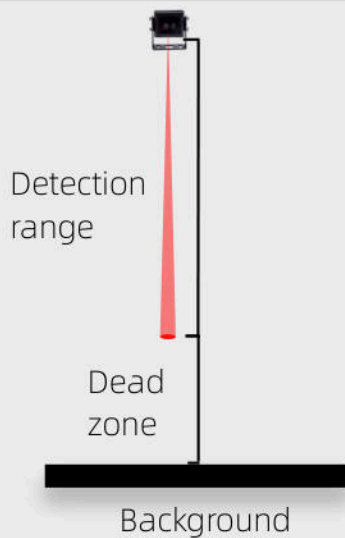
Auto-learning or set detection range



Without Background

Set detection range

Detection range ↑



Detection range

Dead zone

Background

The distance from LS90 to background
=Detection range+Dead zone

Automatically calculated by the sensor

Parameters T

Detection range

0-10m @90%reflectivity

0-2.5m @10%reflectivity

Accuracy

±6cm @(0.2m~3m)

±2% @(3m-10m)

Range resolution

1cm

Frame rate

1-250HZ(adjustable)

Ability to resist ambient light

70Klux

Operating temperature

Central wavelength

850nm

Human eye safety

Class1(IEC60825)

FOV

2°

Power supply

12-36V AC/DC

Average current

≤70mA

Consumption

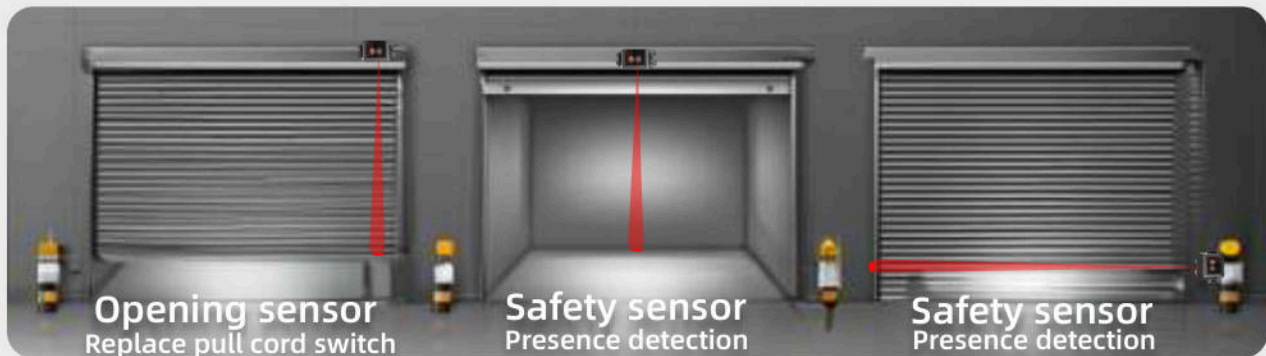
≤0.35W

Peak current

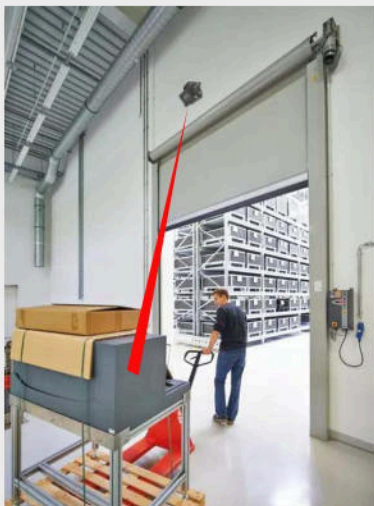
150mA

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Typical usage



Applications



Presence detection



Opening sensor

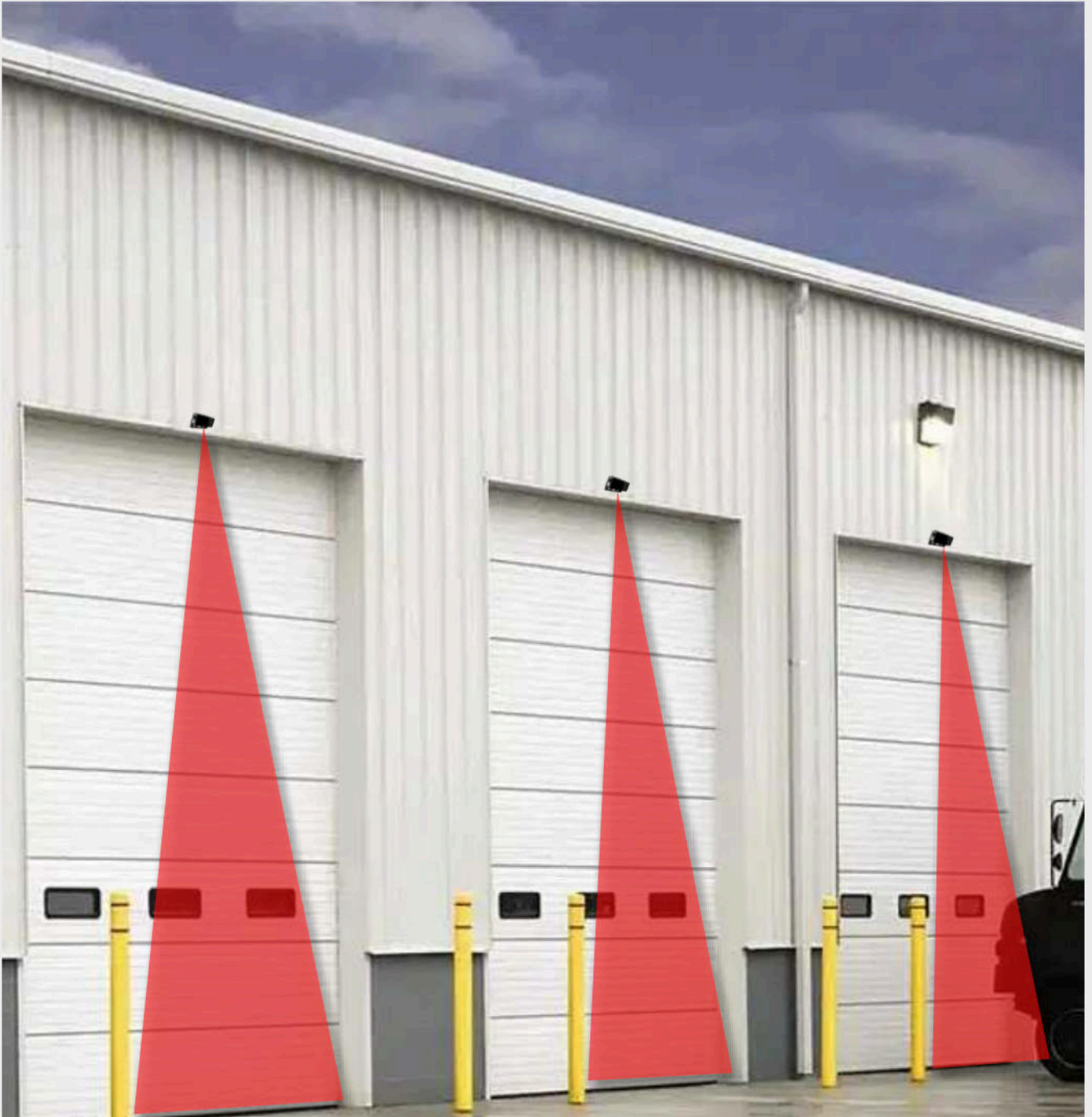
Quick setup



Giants Sensor Technology

LCS401

Industrial Door Laser Safety Curtain



Giants Sensor Technology

LCS401

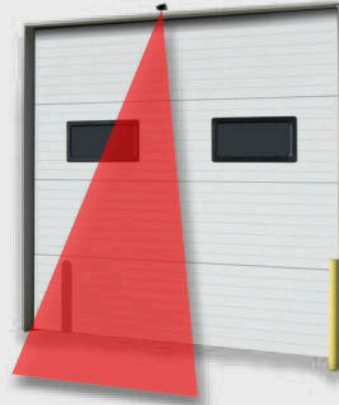
Industrial Door Laser Safety Curtain

Features

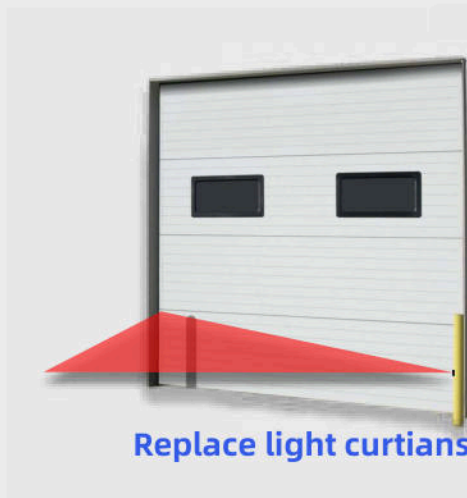
- 2D laser light curtain, at a height of 10 meters.
- The minimum ground blind area is 5cm.
- The distance accuracy is 1cm, and the aspect ratio is 1:4.
- It can be with or without background.
- The detection distance does not drift.
- Mobile phone AP setting parameters.



LCS401-1



Presence detection



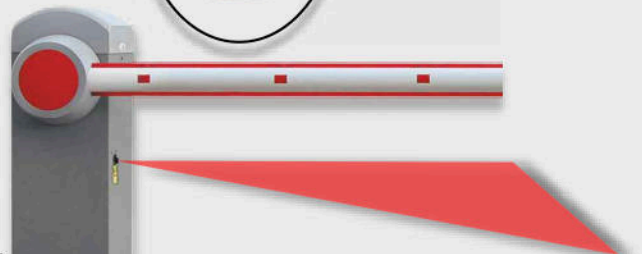
Replace light curtains

Advantages

- IP65 rated, no need to open the cover for settings.
- 2D laser light curtain, with an aspect ratio of 1:4.
- Horizontally and vertically types to meet different applications.



LCS401-2



Giants Sensor Technology

LCS401

Industrial Door Laser Safety Curtain

Parameters

Detection range

0-10m

Accuracy

±5cm @(0.2m~3m)

±2% @(3m-10m)

Range resolution

1cm

Operating temperature

-30°C~60°C

Protection class

IP65

Light source

VCSEL

Central wavelength

905nm

Housing material

ABS

Cable length

20cm quick plug+2.8m

Human eye safety

Class1(IEC60825)

Aspect ratio&FOV

1:4

14°X1°

Power supply

12-36V AC/DC

Average current

≤70mA

Consumption

≤0.35W

Peak current

150mA

Output

48VACDC,100mA

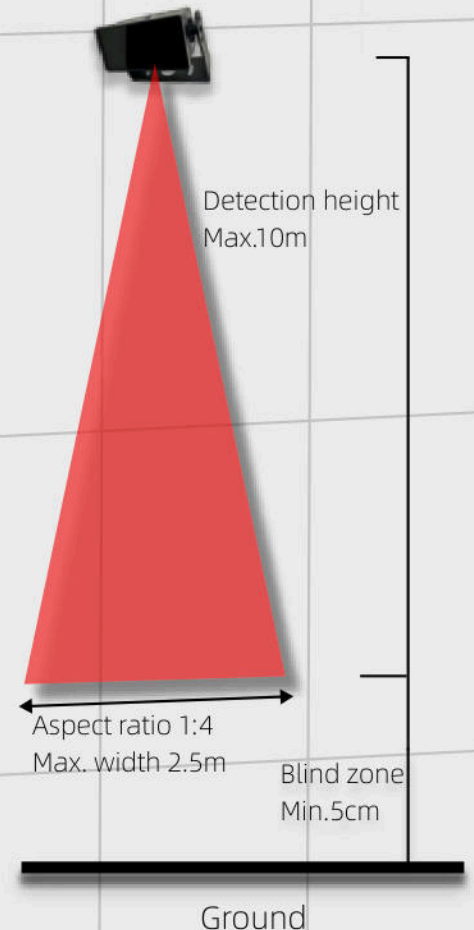
Dimension

70mm x 59mm x 32mm

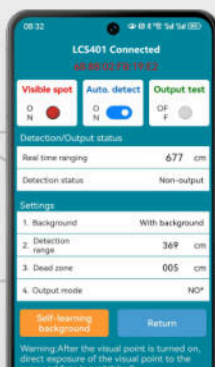
Weight

200g

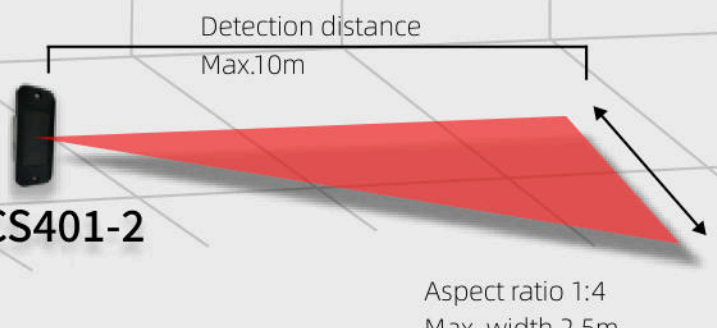
LCS401-1



APP



LCS401-2

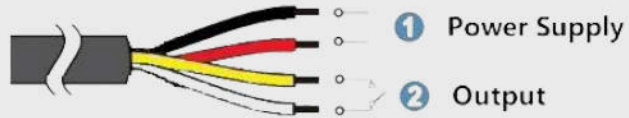


Giants Sensor Technology

LCS401

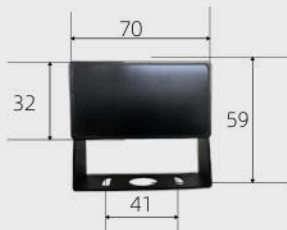
Industrial Door Laser Safety Curtain

Wiring



- ① Power supply
12-36V AC/DC
- ② Output
Red LED

Dimensions Unit (mm)



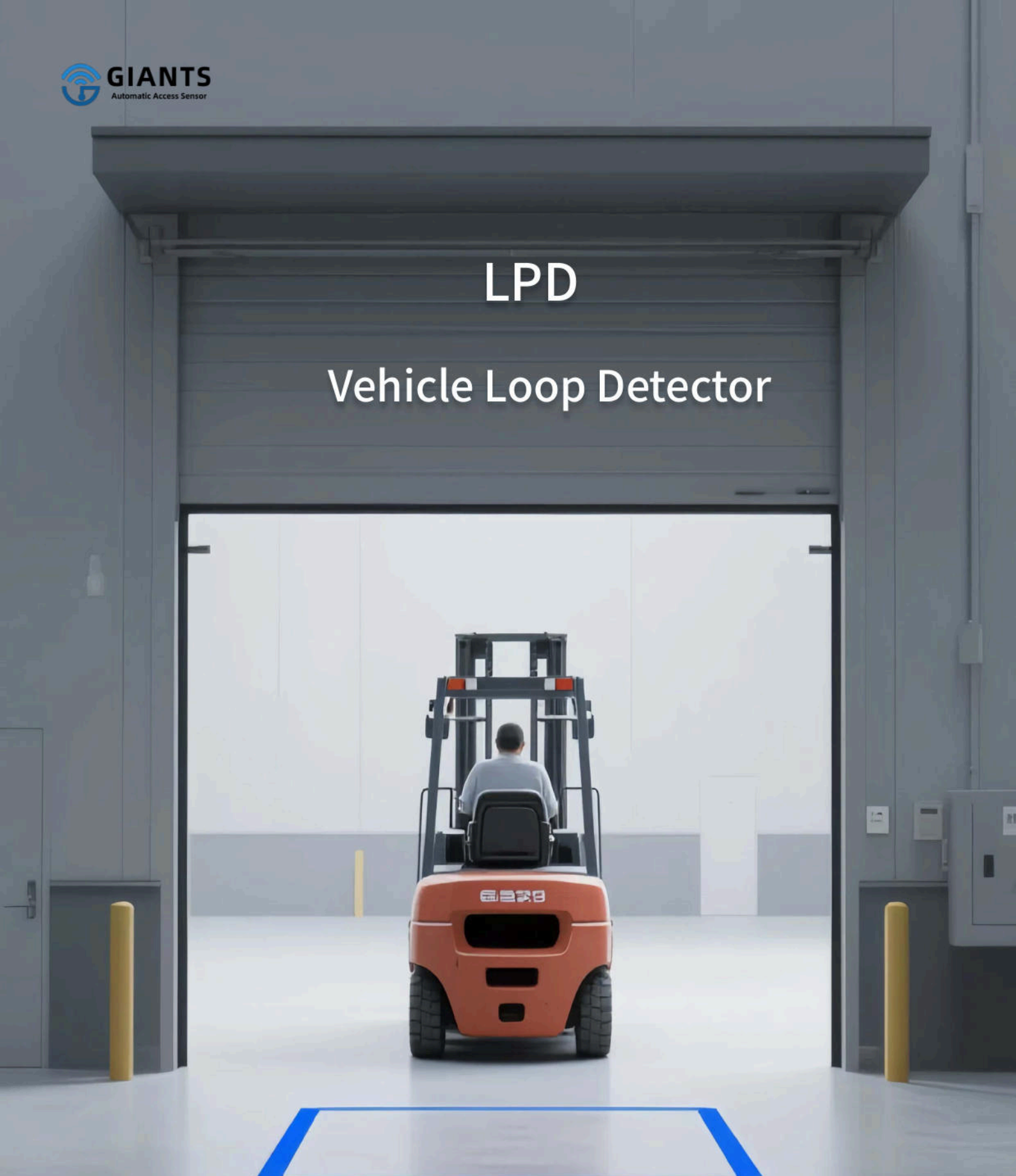
LCS401-1

LCS401-2

Giants Sensor Technology

LPD

Vehicle Loop Detector



Giants Sensor Technology

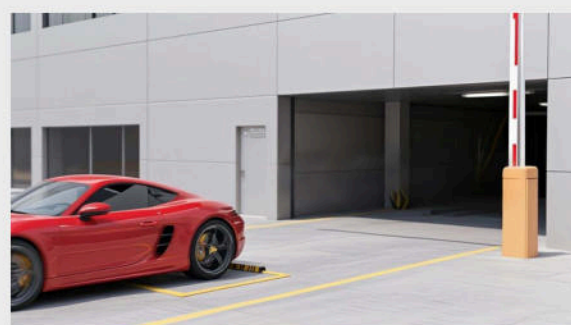
LPD

Vehicle Loop Detector



Features

- Two-way relay output with multiple combinations;
- Four-level sensitivity setting, suitable for various conditions;
- The existence time can be set;
- Delayed output can be selected;
- Two frequency options to avoid interference;
- Modular structure, convenient for fixed installation.



Gate barrier anti-fall

s: Sensitivity	Lower	Low	ON
h: Presence time	High	Higher	ON
r: Output setting(R2)	5m.	Inf.	ON
d: Delayed Output Time	0s	2s	ON
f: Frequency	High	Low	ON



Industrial door opening

Giants Sensor Technology

GN50

Photoelectric Switch



Giants Sensor Technology

GN50

Photoelectric Switch

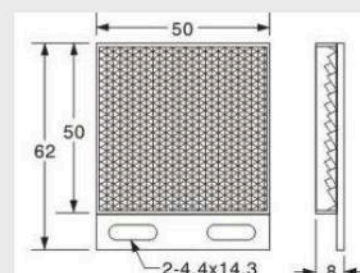
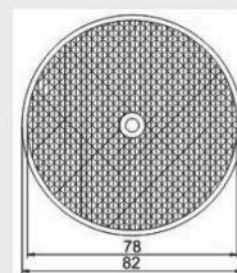
Features

- Penetrates rain/fog, Suitable for cold storage environments
- Sunlight-resistant
- Unaffected by black surfaces or mirror reflections
- Compact design, Easy in-stallation
- Wide temperature tolerance: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Protection rating: IP67



Technical data

Model Number	GN50MRA / GN50MRSA (Polarized) GN50MRB / GN50MRSB (Polarized)
Detection Range	0.1~8m / 0.1~10m 0.2~6m / 0.2~8m
Light Source Red Light	650nm
Operating Voltage	10-30VDC
Current Consumption	$\leq 40\text{mA}$
Protection Rating	IP67
Output Load	1A 120VAC/24VDC
Operating Temperature	$-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$
Power-on Delay	200ms
Response Time	$\leq 30\text{ms}$
Repeatability	10%
Indicator Lights	Green: Power indicator Red: Output indicator
Housing Material	ABS housing, PMMA lens
Connection Method	2m cable



Giants Sensor Technology

GSL

Industrial Door Safety Light Curtain



Giants Sensor Technology

GSL

Industrial Door Safety Light Curtain

Features

- Specifically developed for industrial doors.
- Sensing range: 10 meters.
- Beam spacing: 59mm.
- Profile options:
- Three structural designs available.
- Five height options: 520mm, 1000mm, 1500mm, 1800mm, 2000mm.



Technical data

	520mm	1000mm	1500mm	1800mm	2000mm
Basic parameters					
Number of infrared beams	8	16	24	29	32
response time	45ms	60ms	60ms	60ms	60ms
Infrared beam spacing	59mm				
Minimum beam	≤35mm				
Highest beam	≥420mm	≥900mm	≥1380mm	≥1670mm	≥1850mm
Blanking function	-	-	S-type/T-type	S-type/T-type	S-type/T-type
Power consumption	4W				
Reliability					
Position tolerance	Up and down direction ± 15mm/7 °; front and back direction ± 3mm/5 °				
Working distance	1m-10m				
Ambient temperature	-20°C~+65°C				
Anti optical interference	100,000Lux.				

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