

The Aesthetics of Elevator Spaces: Contactless & Medium-free measurement

Gather Power, Gain the Point

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GATPOR
聚强智能

Elevator Industry Solutions

The Aesthetics of Elevator Spaces:
Contactless & Medium-free measurement

Gather Power, Gain the Point



Non-contact
measurement



High precision



Easy installation



Aesthetic design



About Us

A the elevator industry transitions toward intelligent and digital systems, there is a growing need for diverse types of sensors to enhance elevator operational performance.

Founded in 2019, GATPOR is an entrepreneurial team composed of seasoned engineers specializing in laser sensors and elevator electrical control systems. Originally rooted in the automotive industry. From logistics to elevators, GATPOR consistently employs laser ToF (Time of Flight) technology as its core, tailored to meet the specific application requirements of various industries. The elevator industry has been introduced with innovative solutions such as cable-free systems, absolute positioning systems, and specialized optical screens.

GATPOR is not only committed to introducing advanced laser measurement technology from the automotive industry into the elevator sector, but also focuses on enhancing elevators safety and aesthetic appeal. With a futuristic vibe, it focuses more on how to make your entire elevator stand out and excel in fierce competition.

01

Laser

Develop sensor products centered on laser technology, particularly Time-of-Flight (ToF) technology. Apply advanced automotive lidar technology to the elevator industry.

02

Specialty

The R&D team accounts for over 40% of the workforce, with its core team comprising PhD and master's degree holders. Key members previously held executive positions at leading industry enterprises and possess expertise in laser sensing technology as well as experience in the elevator industry.

03

Self-Developed & Self-Produced

GATPOR operates from three key hubs—the Shanghai R&D Center, the Shaoxing manufacturing plant, and theShenzhen branch—with a combined R&D and manufacturing base spanning over 5,000 square meters. The company also maintains offices in cities such as Changsha and Guangzhou, establishing a nationwide integrated R&D, production, and sales network.

04

Develop rapidly

The company holds over 50 patents and software copyrights, is recognized as a Shanghai High-Tech Enterprise, and has obtained ISO 9001 and CE certifications. It has successfully completed angel round and Pre-A round financing rounds totaling tens of millions of yuan.

VERIFICATION & HONOR

The company has been recognized as a [Shanghai High-Tech Enterprise](#) and serves as a member of the [China Elevator Association](#). It's self-developed "Elevator Laser Distance Sensor" and "High-Performance Laser Distance Sensor" have consecutively won the [Shanghai Innovation Fund Class A Award](#). The company has also passed [ISO 9001 Quality Management System certification](#), and its core products have obtained [CE certification](#), meeting the high standards required by the global market.



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Gather Power, Gain the Point



WeChat



Channel



TikTok

Catalogue

01



Traveling cable less solution for home-lift

01 The physical medium is eliminated to complete the power and signal transmission.

02



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03



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Collision Prevention Solution for the Bottom of Elevator Cabins

13 Contactless protection in pit.

Traveling Cable Less Solution For Home-Lift

The physical medium is eliminated to complete the power and signal transmission.

As household elevator users shift their focus from functional satisfaction to aesthetic appreciation, a transparent shaft has become the fundamental prerequisite for elevator aesthetic design. However, traditional overhead cables rely on physical media, featuring a suspended appearance that compromises visual appeal and generating operational noise interference. Is there a solution that eliminates physical media for power and signal transmission in home-lift?

GATPOR Proposal

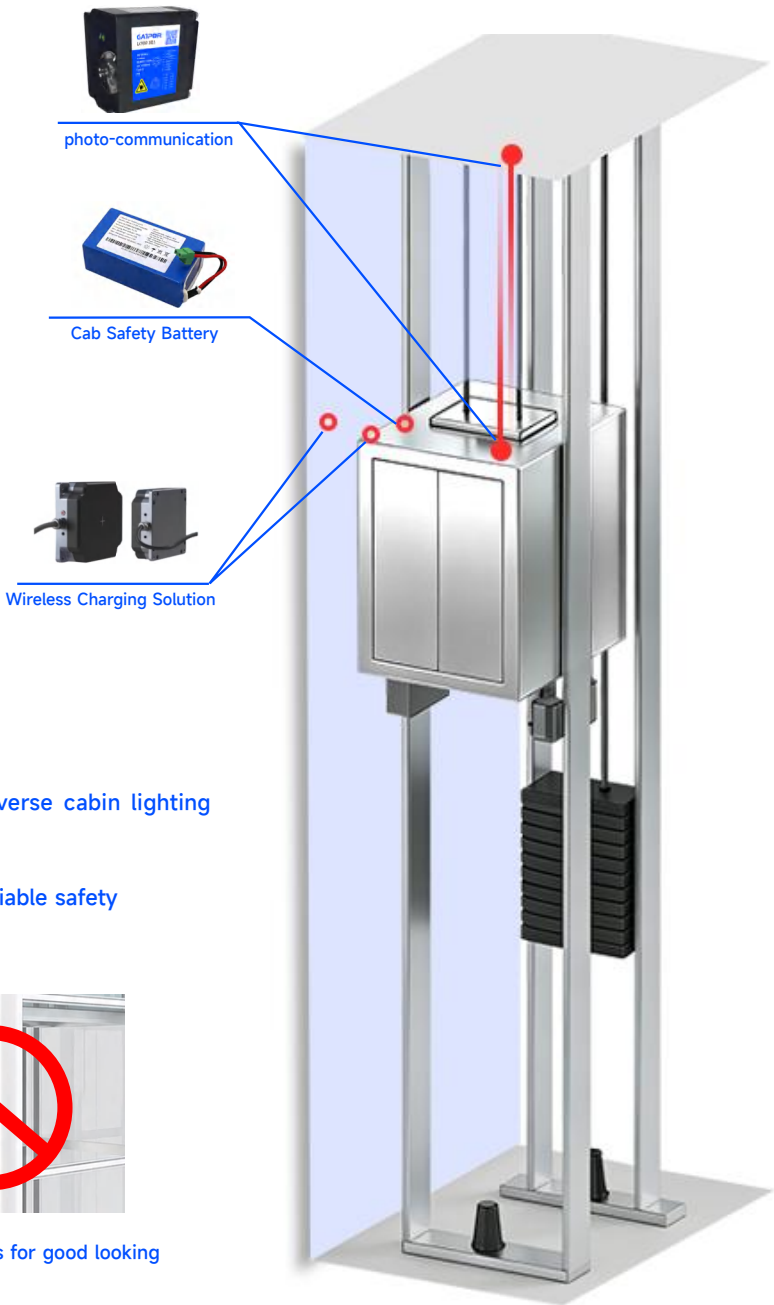
The GATPOR LC100 series optical communication sensors utilize point-to-point optical communication technology, combined with cabin safety batteries and wireless charging systems, to transmit power, signals, and data with precision and safety. Featuring a compact design, they offer easy installation.

Wireless communication based on optical communication

- Anti-electromagnetic interference**
Not affected by external electromagnetic fields
- High confidentiality**
Optical signals do not emit electromagnetic radiation and are therefore difficult to intercept
- High transmission rate**
Supporting 100 Mbps communication
- Rich interface configuration**
Reserve CAN, RS485, and I/O interfaces

Power Supply Solution Based on Wireless Charging

- Contactless charging method**
More flexible installation with contact-free noise
- With 300W high power output, it supports diverse cabin lighting configurations**
- Be paired with highperformance batteries for reliable safety**



Traveling cable less for good looking

Related products

Traveling cable less for good looking

LC100 Optical Communication

Product presentation

As the demand for high-end home lift evolves from functional requirements toward aesthetic and intelligent enhancements, traditional cab cables increasingly face challenges such as visual obstruction, noise interference, and complex maintenance. GATPOR has innovatively applied spatial optical communication technology to the elevator industry, launching the LC100 series of optical communication sensors that enable fully wireless data transmission between elevator cabins and machine rooms, providing an efficient communication solution for smart buildings and IoT applications.

-  Eliminate electromagnetic interference
-  Low latency
-  For long distances
-  More Reliable



Parameter		LC100
Basic Function	Power Supply	18 ~ 30VDC
	Maximum Power Dissipation	< 3W
	Communication Distance	0.1 ~ 50 M
	Communication Angle	±1°
	Light Source	Laser 785nm/850nm
	Receiver	APD
	Laser Alignment	650nm Red Indicator Laser
	Optical Rate	100Mbps
Output Interface	Supported Interfaces	CAN, RS-485, I/O
	Max Transfer Rate	CAN interface: 1 Mbps RS-485 interface: 1 Mbps
	I/O Delayed	< 1ms
	CAN Terminal Resistance	Yes
	RS-485 Terminal Resistor	Yes
	Input Type	Optical Coupling Isolation
	Output Type	Optical Coupling Isolation

For product dimension drawings, please refer to the product manual.

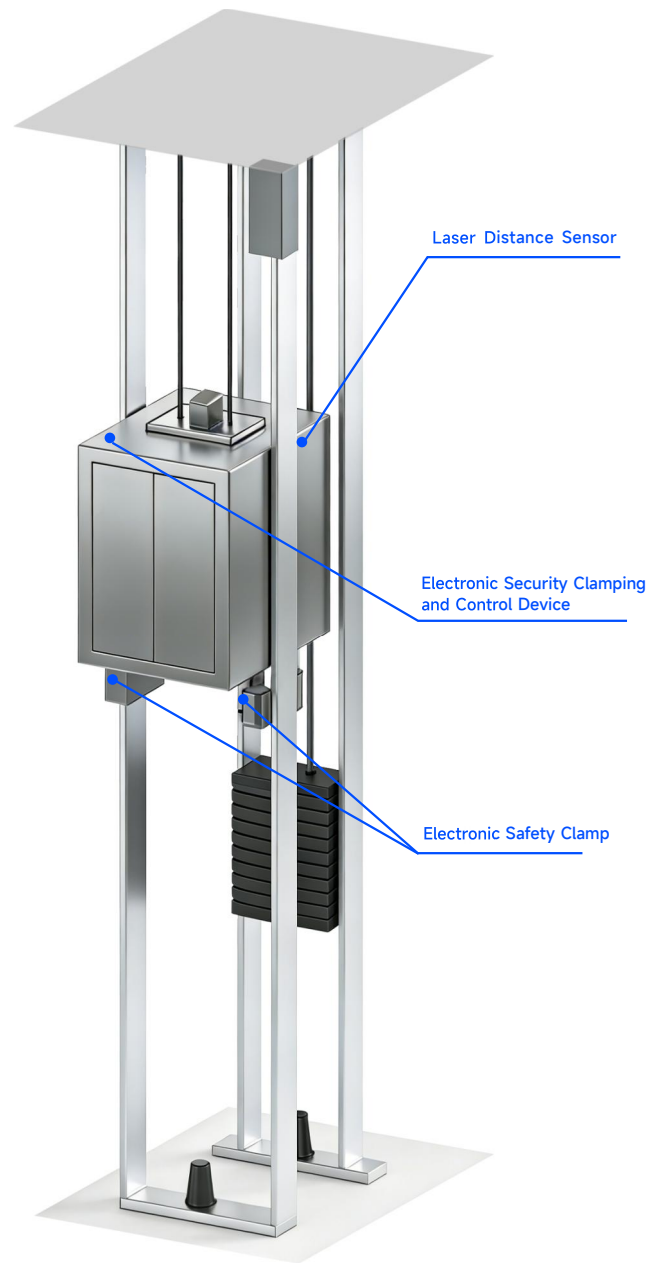
Absolute Position System For Home-Lift

Good looking in the glass shaft

Conventional home lift positioning systems suffer from issues such as position loss during power outages, time-consuming end-seeking procedures, magnetic stripe installation that compromises aesthetics, as well as friction noise and wear. There is an urgent market demand for a novel system with comprehensive information capabilities and discreet installation, enabling home lift shafts to seamlessly accommodate transparent designs while truly enhancing spatial aesthetics.

GATPOR Proposal

GATPOR Transparent Hoistway Absolute Position Monitoring System mounts laser sensors on the sides of the car or at the top of the hoistway. By emitting laser beams, the system provides real-time feedback on the car 's absolute position and speed without requiring any intermediary media.



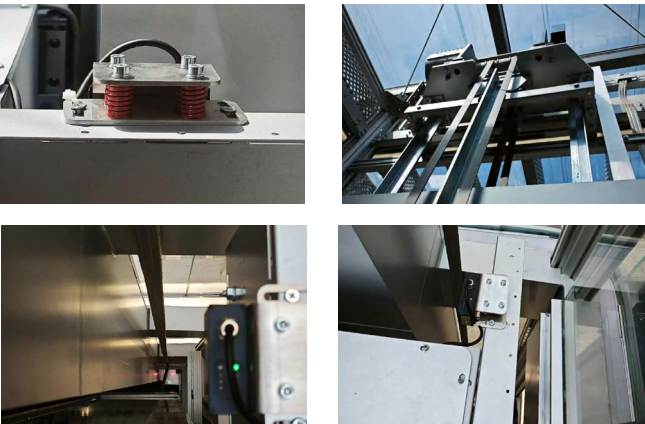
- ✦ **The elevated shaft offers higher transparency and a more aesthetically pleasing appearance.**

Medium-free positioning eliminates the need for a magnetic scale in the passageway, enabling discreet installation.
- ✦ **Easy to install**

Easy to install and low maintenance costs.
- ✦ **Support electronic safety clamps**

When used in conjunction with the electronic safety clamp, it enables overspeed control.

Application In Jobsite



ELD100 Series Laser Distance Sensor

By emitting a laser beam, it provides real-time feedback on the car's absolute position and speed without requiring any medium.



- ✦ **Aesthetic And User-Friendly**

Media-free measurement for a more aesthetically pleasing shaft appearance; adjustable brackets for simple and user-friendly installation and debugging.
- ✦ **Alone Operation**

It features a built-in speed limiter that operates independently of the device's existing electronic control system without interference.
- ✦ **Precision Measurement**

Based on ToF laser ranging, velocity measurement is accurate and reliable.
- ✦ **Smart Self-Check**

Supports system-level self-diagnostics, as well as real-time communication between the CANopen interface and the electronic control unit.

Parameter		ELD100
Range Measurement Technical parameters	Measuring range	0.3-25m
	Repeatability	±1mm
	Output rate	100Hz
	Temperature drift	≤ 0.1mm/K
	Max speed	≤ 10m/s
	Start up time	6s
Optical Parameter	Source	Laser, Infrared
	Wavelength	905nm+650nm
Electrical Parameters	Power Supply	18V-30V DC
	Working Current	≤ 30mA / 24V DC
CANopen Interface Parameters	Port rate (kbit/s)	20/50/57.143/100/125/250/500/1000
Mechanical Parameters	Size	26mm x 72mm x 55mm
	Hull	Alufer
	Lens	Glass
	Weight	Approximately 140 g
	Levels of protection	IP66
Enviromental Parameter	Environmental light interference	Not affected by ambient light (ambient illumination: 100 kLux)
	Working temperature	-10°C ~55°C
	Storage temperature	-40°C ~85°C

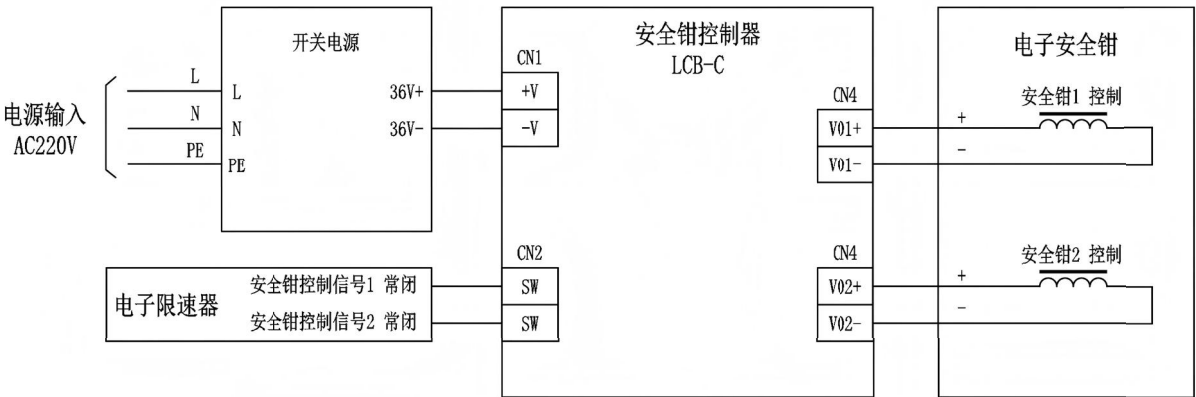
For product dimension drawings, please refer to the product manual.

LCB-C Electronic Safety Clutch Controller

GATPOR Electronic Safety Clutch Controller supports external connection of a switching power supply and triggers upon power failure. It is safe and reliable, featuring a purely hardware-based circuit design with no software involvement, ensuring simple and reliable operational behavior.



- Compact in size**
The volume is only 111x78x36 mm
- Wide Voltage Protection**
External switching power supply, operating with a wide voltage range of 36~48 VDC
- Pure Hardware Security**
Implemented entirely as a hardware circuit without software involvement, featuring simple and reliable operation

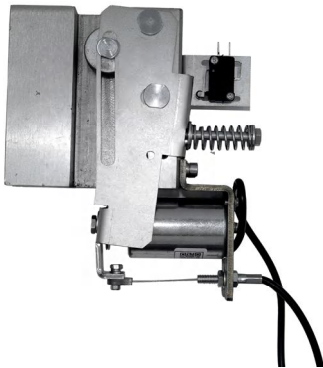


Electrical character		LCB-D
Power Supply	V	36~48VDC
Output voltage range	V	Excixation:36 VDC Hold:9 VDC
Max output current	A	2.5*2
Allowable ripple values for each circuit	mV	240
Linear Adjustment Rate		±1%
Load regulation		±2%
Working temperature		-10℃ ~ + 45℃
Storage/Transport Temperature		-30℃ ~ + 80℃
Height		≤ 1000m; distances exceeding 1000m require reduced usage, with a maximum of 3000m
Humidity		Below 95% relative humidity (RH), no condensation

For product dimension drawings, please refer to the product manual.

LSE02/LSE03 Instant Safety Clamps

The industry-leading safety clamps demonstrate significantly superior product reliability and stability compared to the average industry performance.

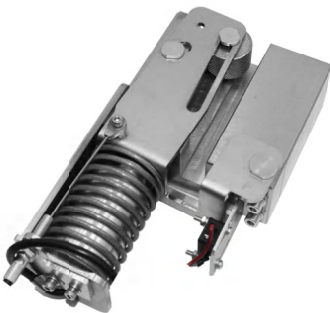


LSE02 Instant Safety Clutch

- Compact structure**
The horizontal electromagnetic component measures only 151 mm in size and is compatible with various compact ladder-type configurations.
- Quick Response**
Superior response speed: electronic components outperform mechanical components.

Order number	Nominal rated speed	Trigger speed	Allow Quality	Guide rail width	Input voltage	Trigger Method
A01	0.25~0.4m/s	0.29~0.63m/s	≤ 1300kg	9/10mm	220V AC	Electric Trigger
A02	0.25~0.4m/s	0.29~0.63m/s	≤ 1300kg	9/10mm	48V DC	

For product dimension drawings, please refer to the product manual



LSE03 Instant Safety Clutch

- Compact structure**
The vertical electromagnetic component measures only 194 mm in size, making it suitable for various compact ladder configurations.
- Quick Response**
Superior response speed: electronic components outperform mechanical components.

Order number	Nominal rated speed	Trigger speed	Allow Quality	Guide rail width	Input voltage	Trigger Method
B01	0.25~0.4m/s	0.29~0.63m/s	≤ 1300kg	9/10mm	220V AC	Electric Trigger
B02	0.25~0.4m/s	0.29~0.63m/s	≤ 1300kg	9/10mm	48V DC	

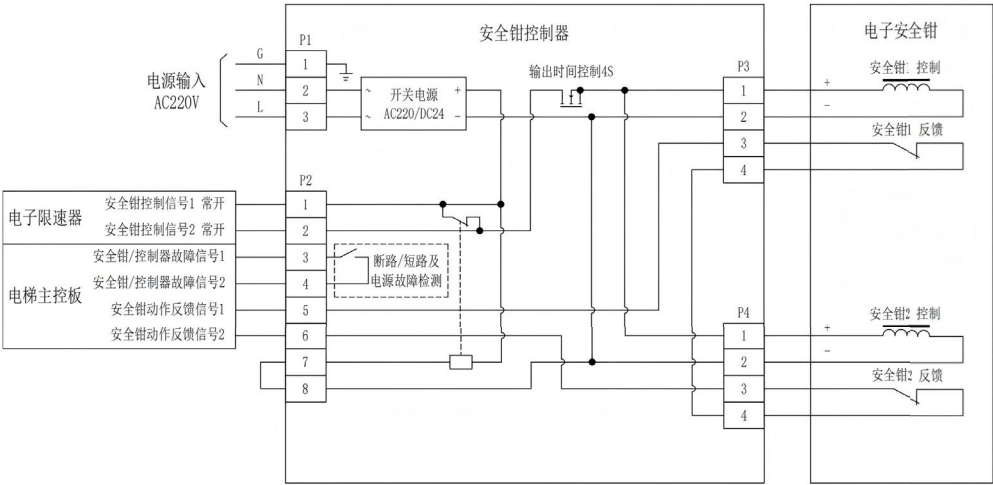
For product dimension drawings, please refer to the product manual

LCB-D Electronic Safety Clutch Controller

GATPOR Electronic Safety Clutch Controller integrates the switching power supply with the safety clutch controller, featuring a compact size; it performs real-time self- checks and online monitoring for clutch open-circuit, short-circuit faults, and component-level self-diagnosis; ensuring safety and reliability through purely hardware-based circuit implementation without software involvement, with straightforward and reliable operational behavior.



- Highly Integrated**
The switching power supply integrates the function of a safety clamp controller, with dimensions of only 130×98×40 mm.
- Wide Voltage Protection**
operates over a wide voltage range of 176~264 VAC; brief exposure to 380 VAC does not cause damage.
- Real-time self-check**
Online monitoring of safety valve wire breakage, open-circuit and short-circuit faults, with component-level self-check.
- Pure Hardware Security**
Implemented entirely as a hardware circuit without software involvement, featuring simple and reliable operation.



Electrical character		LCB-D
Power Supply	V	Operates at 176~264 VAC and 350 VAC for 8 hours without damage.
Output voltage range	V	24.0-25.0
Rated output current	A	2.5*2
Allowable ripple values for each circuit	mV	240
Linear Adjustment Rate		±1%
Load regulation		±2%
Output power	W	120
Dynamic response		For load jump frequencies not exceeding 1 kHz, when the load current varies between 30% to 90% and then back to 30% of the rated output current, the dynamic response time shall not exceed 50 ms.
Power Supply Stability		After 24 hours of operation, the rate of change of the power output voltage is ≤ ±0.5%.
Defensive function		The output is cut off 4 seconds after activation; if the power supply continues to supply output after 10 seconds, turn off the power and lock the protection status.

For product dimension drawings, please refer to the product manual

LSE07 Progressive Safety Gear

The industry-leading safety clamps demonstrate significantly superior product reliability and stability compared to the average industry performance.



LSE07 Progressive Safety Gear

- Compact structure**
The vertical electromagnetic component measures only 197 mm in size, making it suitable for various compact ladder configurations.
- Quick Response**
Superior response speed: electronic components outperform mechanical components.

Order number	Nominal rated speed	Allow Quality	Guide rail width	Input voltage	Trigger Method
A01	1m/s	≤ 1800kg	9/10mm	220V AC	Electric Trigger
A02	1m/s	≤ 1800kg	9/10mm	48V DC	

For product dimension drawings, please refer to the product manual

Integrated Position Sensor For Shaft Information

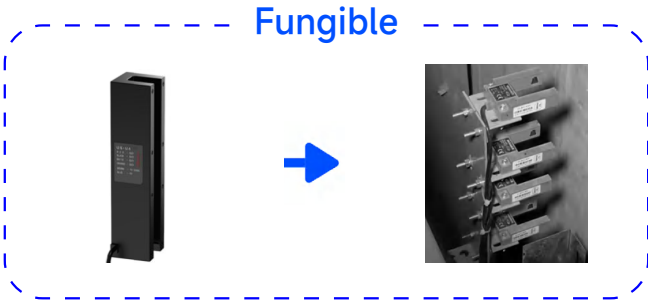
New Tier Applications & Post-Market Applica-tions

Traditional level-level switching products for elevators are well-established, yet they still face challenges such as cumbersome installation, complex wiring, and a wide variety of models. GATPOR has introduced the US-U4 series of integrated multi-channel photoelectric switches designed for new elevator applications, along with the US single-channel photoelectric switch tailored for aftermarket applications.

1 .New Tier Application: Integrated Multi-Channel Photoelectric Switch



US-U4 Multi-channel Photoelectric Sensor



- Material cost reduction of over 20%
Simplify the metal bracket of the optical switch, reduce the number of wire harnesses, and streamline their manufacturing process to achieve cost reduction in materials.
- Easier installation and debugging
Standardized wiring harness connectors prevent incorrect connection of upper and lower switches, reducing on-site labor costs.

2 .Post-Market Applications: Multi-Purpose Photoelectric Switch



US01 M Series Slot-type Photoelectric Switch

- A switch with 4 requirements
The switch offers both high-level and low-level outputs, and can be configured for normally open or normally closed operation on-site. A single switch meets four different field requirements, minimizing spare parts inventory.
- Light modulation technology, resistant to strong light interference
The optical modulation technology derived from laser sensors significantly enhances light interference resistance, ensuring stable operation of the observation elevator.

Related products

New Elevator Installation & Elevator Maintenance

US-U4 Series Multi-channel Photoelectric Sensor

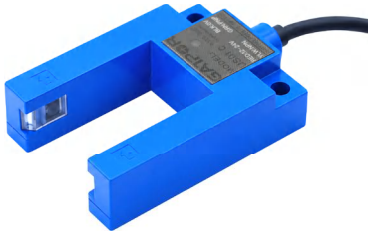


- product presentation
GATPOR US-U4 series multi-channel laser photoelectric switches deliver reliable performance coupled with exceptional cost-effectiveness. Their broader parameter ranges enable application in specialized scenarios previously limited to dedicated series, offering customers advantages in product selection and inventory management. With built-in communication support, they prevent unauthorized component replacement while ensuring original factory quality.

Parameter	US-U4 series
Model	US-U4
Output Type	PNP NO
Light Source	940 nm infrared light
Levels of protection	IP66
Working temperature	-20° C-65° C
Storage temperature	-40° C-75° C
Static electricity ESD	±6kV
Supply voltage	10-30VDC
Working Current	<15 mA
Load current	<100mA
Power dissipation	<0.35W
Size	L*W*D: 154 mm * 70 mm * 70 mm U W: 40 mm, D: 48.5 mm
Shell material	Plastics
Pigment	Black
Cable	3.0m PVC conductor lead-out type

For product dimension drawings, please refer to the product manual

US01 M Series Slot-type Photoelectric Switch



- product presentation
The Poly Smart US01 M series slot-type photoelectric switch employs 940 nm infrared transmit and receive sensors, software-based transceiver decoding technology, and robust anti-interference capabilities. It maintains stable detection performance even under outdoor sunlight, indoor lighting, or direct infrared illumination in industrial environments. With a response time of less than 1 ms, it can detect both small objects and moving targets.

Parameter	US01 M series
Model	US01 M
Illuminant	940 nm infrared light
Levels of protection	IP66
Working temperature	-20° C-65° C
Storage temperature	-40° C-75° C
Static electricity ESD	+6kV
Supply voltage	12-24VDC
Working Current	<10 mA
Load current	<100mA
Power dissipation	<0.25W
Output Type	NPN+PNP NO
Size	L*W*D: 72 mm * 52 mm * 20 mm U W: 30 mm, D: 45 mm
Shell material	Metal
Pigment	Blue
Cable	2.0m PVC conductor lead-out type

For product dimension drawings, please refer to the product manual

Special Light Curtain For Curved Glass Door

A more flexible and reliable curved light screen solution

The curved elevator door design enhances the elevator's elegance and fluidity. However, traditional vertical elevator light screens predominantly employ direct-line configurations, with sensors that can only be installed horizontally—making them incompatible with curved surfaces or vertical installations. Ground-mounted sensors are prone to dust and water accumulation, compromising their reliability. Given the unique structure of curved doors, there is an urgent need for a more flexible and reliable curved light screen solution.

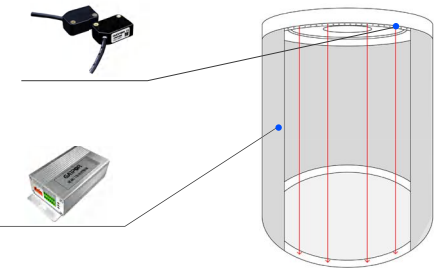
GATPOR Proposal



PS Series ToF Photonic Sensor

EDC10 Elevator Light Screen System Controller

A PS-series ToF laser ranging sensor is installed on the top of the cabin, emitting laser beams vertically downward at intervals of 20–50 mm (flexibly configurable according to user requirements). By utilizing the principle of diffuse reflection, it accurately detects moving objects entering the door area.



Diffuse reflection

No installation of a counter sensor required; installed on the upper part of the elevator car.

Flexible Layout

Adapted to the shape of elevator doors and suitable for specialized elevators.

Products related to the curved elevator door light screen solution

A more flexible and reliable curved light screen solution

EDC10 Elevator Light Screen System Controller



Product presentation

The GATPOR EDC10 series elevator screen system is a measurement system utilizing multiple photoelectric sensors for detection, suitable for applications such as elevator doors with a maximum height of 5 meters.

Parameter	EDC10
Supply voltage	220V AC
Working Current	<50mA
Number of sensors	24
Output model	1 Road control signal (normally open/normally closed) 1 Road fault signal (normally open/normally closed) 1 Road alarm buzzer
Size	35mm x 65mm x 100mm

For product dimension drawings, please refer to the product manual

PS Series ToF Photonic Sensor



Product presentation

The GATPOR PS series employs TOF laser ranging technology, enabling detection of object presence at any location. It features a refresh rate of 50Hz, a maximum measurement range of 5m, and a measurement accuracy of 5mm.

Parameter	PS01
Product features	Normalized form
Measured range	2m/5m
Repeatability	±5mm
Light Source	940 nm infrared laser
Refresh Speed	50Hz
Spot size	8mm@50cm, 30mm@100cm
Levels of protection	IP66
Working temperature	-20°C ~65°C
Storage temperature	-40°C ~75°C
Static electricity ESD	±6KV
Supply voltage	+12V~+24V
Working Current	8mA~20mA
Power dissipation	<1W
Maximum output current	<100mA
Output Type	PNP/NPN
Size	19mm14mmx10.4mm (length × width × height)
Shell material	PVC
Line Type	2.5x4P protective sleeve Wire-out type / Connector type
Wire length	2M
Wiring Harness Definition	Brown (+), Blue (-), Black (output), White (set to normally open/ normally closed connection + floating: normally closed);Connection: Always On)

For product dimension drawings, please refer to the product manual

Collision Prevention Solution for the Bottom of Elevator Cabins

Contactless protection in pit

Open shaft elevators must implement obstacle detection at the bottom of the car to ensure operational safety. Traditional mechanical collision switches require physical contact to activate, whereas users prefer contactless distance detection systems for achieving proactive safety protection.

GATPOR Proposal

PS01 ToF sensors are installed in a distributed pattern beneath the cabin, utilizing the principle of laser diffuse reflection to continuously monitor the area below. When personnel or objects approach a preset hazardous distance, the system immediately activates collision prevention protection measures.

- Contactless Detection**
Provide early warnings without contacting obstacles, achieving active safety.
- Millimeter-level precision**
Accurate detection to prevent false positives/lack of detection
- Resistant to environmental interference**
Resistant to dust, oil contamination, and light fluctuations, ensuring stable and reliable performance.
- Easy to install**
Compact in size, it can be embedded under the elevator car or shaft bottom without compromising aesthetics.



This Also Applies to Standard Elevators With Shafts.



Products related to the vehicle floor collision prevention solution

Contactless Active Safety Protection

PS Series ToF Photonic Sensor

Product presentation

The GATPOR PS series employs TOF laser ranging technology, enabling detection of object presence at any location. It features a refresh rate of 50Hz, a maximum measurement range of 5m, and an accuracy of 5mm.



Detectable glass



CE Attestation



Long-distance



Quick response



Diffuse reflection



Set detection range with one click



Parameter	PS01	PS05
Measured range	2m/5m	2m/5m
Repeatability	± 5mm	
Light Source	940 nm infrared laser	940 nm infrared laser; 650 nm demonstration laser
Refresh Speed	50Hz	
Spot size	8mm@50cm, 30mm@100cm	
Levels of protection	IP66	
Working temperature	-20°C ~65°C	
Storage temperature	-40°C ~75°C	
Static electricity ESD	±6KV	
Supply voltage	+12V~+24V	
Working Current	8mA~20mA	
Power dissipation	<1W	
Maximum output current	<100mA	
Output Type	PNP/NPN	
Size	19 mm × 14 mm × 10.4 mm (length × width × height)	22 mm x 14 mm x 33 mm (length x width x height)
Shell material	PVC	
Line Type	2.5x4P sheath, wire lead-out type / connector type	
Wire length	2M	
Wiring Harness Definition	Brown (+), Blue (-), Black (output), White (set to normally open/normally closed connection + floating: normally closed; connection-: normally open)	

For product dimension drawings, please refer to the product manual

About dToF

Laser dToF (Time-of-Flight) technology has gained widespread recognition due to the proliferation of intelligent driver-assistance systems in automobiles, yet its applications extend far beyond this domain. From smartphones and projectors to robotic vacuum cleaners, dToF technology has long been integrated into daily life, delivering a wide range of functionalities.

Medium-free, wear-free, and completely seamless for users—— these are the core advantages of laser dToF technology. GATPOR is committed to introducing this technology into the elevator industry, exploring broader application possibilities, and creating new value for the sector.

We pioneered the application of laser dToF technology for elevator car positioning, developing a laser-based absolute position system for elevator shafts. The laser serves as an "enduring, slip-resistant, and consistently precise" electronic ruler, ensuring reliable position tracking, stable stop positioning, and reduced maintenance requirements—all while delivering a seamless user experience with aesthetically pleasing shaft interiors.

In response to the elevator industry's high focus on costs, GATPOR adheres to two fundamental assumptions: First, the overall cost of non-media measurement methods will inevitably be lower than that of media-based measurement in the future; Second, thanks to the rapid development of the laser industry and strong industrial capital investment from China, the cost of laser-related components is declining rapidly.

The Performance Advantages of DToF Are Evident



Anti-light
interference

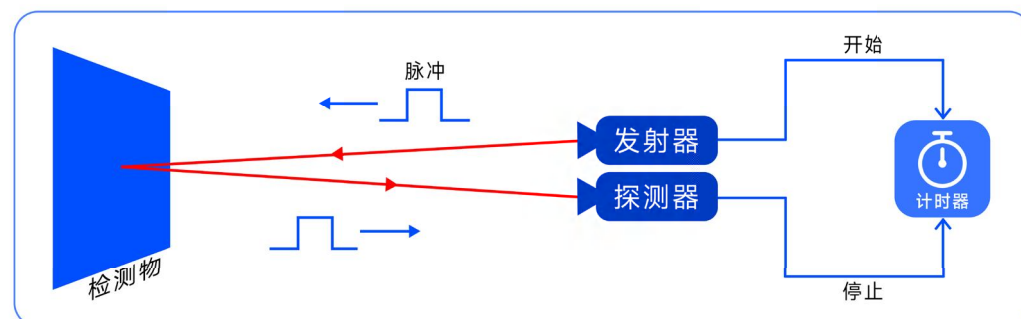


High refresh
rate

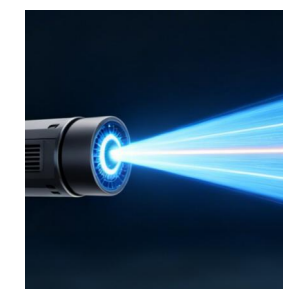


Long measurement
range

dToF原理示意图

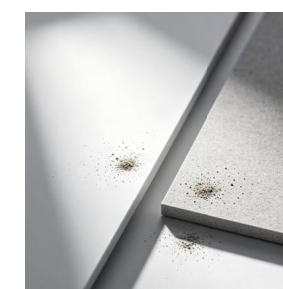


Q&A



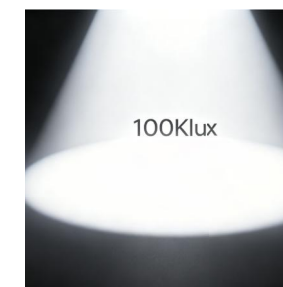
Is It Based on the Same Principle as Handheld Laser Ranging Technology?

Unlike conventional solutions, the use of pulsed high-energy lasers (dToF) better suits industrial applications, offering interference resistance and response speeds that surpass those of consumer-grade products.



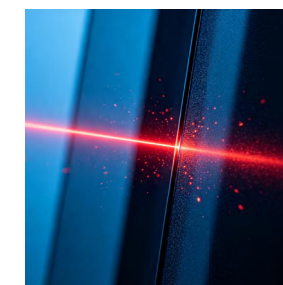
Will dust accumulation on the tested object affect measurement accuracy?

Based on the diffuse reflection design, dust (representing typical diffuse reflection) has no effect on the measurement.



Does sunlight affect measurement accuracy?

Designed for strong light conditions (100 Klux), particularly suitable for transparent shaft applications.



Has any design consideration been given for laser shielding?

The laser sensor can detect laser obstruction, filter short-term obstruction events, and respond to prolonged obstruction with fault protection reporting.

Application Scenarios

With laser sensing technology at its core, it empowers diverse applications.



Home-lift

No trailing cable · Transparent shaft · Precise positioning



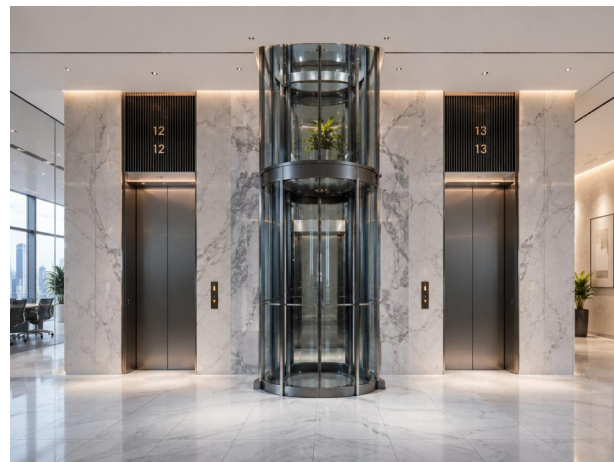
radio communication



precise localization



on the safe side



Commercial Complex / Office Building

High-efficiency throughput · Stable and reliable · Cost reduction and efficiency improvement



Quick Response



Reliable and stable



cost decreasing and benefit increasing



Public transport junction

Iron / High Iron / Airport



on the safe side



quick response



Easy to Maintain

Application Scenarios

Meets diverse application needs, providing reliable solutions for different industries.



Cultural and Tourism Scenic Area / Tourist Elevator

Translucent and aesthetically pleasing · Stable and safe



Transparent and attractive



Resistant to strong light interference



on the safe side

Application In Jobsite

It has been widely adopted by leading elevator manufacturers and major project initiatives.

