GATPOR
聚强智能

Gather Power, Gain the Point

Stacker Positioning & Communication System

Optical Communication + Laser Detection · High-precision Positioning · Safe & Efficient Inbound & Outbound

GATPOR Collaborative Solution for Stacker, integrating three core functions into one system.

Inbound & Outbound Positioning
Laser Distance monitors stacker position in real time.

Empty Bay Detection
Rapid identification of bin occupancy status

FSO Communication
Eliminate trailing cables, immune to electromagnetic interference

Empty Bay Detection

LD35
Laser Distance Sensors



Inbound & Outbound Positioning

LD500
Laser Distance Sensors

Free-space Optical Communication

LC500
Optical Data Transmitter





Main Products



LD500

Laser Distance Sensors

- Repeatability: ±1 mm
- Detection Range: 200 m
- High Precision, Stable & Reliable
- Multiple Communication Protocol Interfaces



LC500

Optical Data Transmitter

- High-speed Wireless Data Transmission
- Immune to Electromagnetic Interference
- Stable, Reliable & Low Latency



LD35

Laser Distance Sensors

- Detects objects of different colors & materials
- Presence detection, height measurement & protrusion detection
- High precision and strong stability

https://www.gatporsensor.com/en

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Material Lift Positioning & Anti-fall System

Multi-detection · Cooperative Linkage · Ensure Safe Operation of Lifts

Collaborative protection solution based on laser distance measurement, electronic safety catcher and conveyor presence detection. It monitors the operating status of lifts in real time to prevent cargo falling and protect personnel & equipment safety.

Multi Protection
Laser Distance + Electronic Safety Catcher + Conveyor Presence Detection

High-precision Detection
Real-time Monitoring, Precise & Reliable

Stable & Reliable
Insensitive to environmental factors such as light and dust

Flexible Deployment
Compact Structure, Easy Installation



Main Products



LD100

Laser Distance Sensors
- Detection Range: 0.3~35 m
- Repeatability: ±1 mm
- Measuring Frequency: 100 Hz
- Multiple Communication Protocol Interfaces
- CE Certified



PS Series

Photoelectric Sensors
- High detection accuracy
- Adaptable to multiple materials & scenarios
- Strong anti-interference capability
- Simple installation & easy commissioning



Electronic safety gear

Anti-fall Safety Device
- Reliable mechanical structure
- Fast response & high stability
- Flexible mounting, compatible with multiple models
- Effectively prevent lift falling

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GATPOR
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Automated Forklift Positioning & Fork Tip Detection

Precise Sensing · Safe & Efficient · Compact Size

It adopts laser ranging and photoelectric sensing technology for fork tip detection and fork height position detection. It enables automated forklifts to achieve precise positioning & accurate operation, making logistics handling safer and more efficient.



Fork Tip Detection

- Real-time monitoring of distance and position between fork tip, goods and pallets to assist operators with precise operation.

Fork Height Position Detection

- Perceive the precise position of forks and assist intelligent decision-making.
- Ensure safe and accurate completion of core operation actions.



Main Products



LD100

Laser Distance Sensors

- Anti-ambient-light interference up to 100kLux
- Tolerant to complex environments
- Repeatability: ±1 mm
- Operating Temperature: -40°C ~ 75°C



PS Series

Photoelectric Sensors

- Compact design, fits perfectly under fork tip
- Detects materials & surfaces of various colors
- Such as glass surfaces, mesh carriers, black pallets, etc.

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GATPOR 聚强智能

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GATPOR·5 CORE PRODUCTS

High Precision, High Reliability. Empower Industrial Mobile Robots & Smart Logistics

Laser Distance

LD500

High-performance Laser Sensors



LD500 adopts high-speed & high-precision laser ranging technology, featuring long range and fast response to meet the demand of precise positioning in industrial applications.

Long Range | High Precision | Stable & Reliable | Anti-interference

Main Specs

Detection Range	0.3-200m
Repeatability	±1mm
Measuring Speed	500Hz
Reflective Target	Diffuse / High Reflective
Comms Interface	RS485+CANopen / SSI PROFINET / RS422

Optical Modules

LC500

Optical Data Transmitter



LC500 adopts point-to-point optical communication technology for long-range high-speed data transmission, with EMI resistance and easy installation.

EMI Resistance | Low Latency | Long Range | High Reliability

Main Specs

Communication Range	0.1-200m
Comms Angle	±1°
Optical Port Speed	10Mbps/100Mbps
Supported Interfaces	Etheret
Max Data Rate	100Mbps
Max Power	< 5W

Laser Distance

LD100

Laser Distance Sensors



LD100 Series are cost-effective laser ranging products with precise & stable measurement, suitable for positioning of logistics, warehousing and automation equipment.

Cost-effective | Precise Control | Fast Refresh | Easy Installation

Main Specs

Detection Range	0.3-35m
Repeatability	±1mm
Measuring Speed	100Hz
Reflective Target	Diffuse / High-reflective
Comms Interface	RS485+CANopen RS485+Analog+PNP/NPN

Laser Distance

LD35

Laser Distance Sensors



LD35 adopts real-time dynamic RTK positioning, for horizontal and vertical position measurement of various machinery.

Small Spot | Laser Source | No Blind Zone | High Precision

Main Specs

Detection Range	12m/35m
Repeatability	±2mm (Typical Values)
Reflective Target	Diffuse / High-reflective
Output Types	PNP/NPN+Analog RS-485

Photoelectric Sensors

PS系列

ToF Photoelectric Sensors



PS Series adopts ToF laser ranging technology. It supports long-range diffuse detection, recognizes glass and other objects, featuring fast response & stable performance.

Glass Detectable | Diffuse | Long Range | Fast Response

Main Specs

Detection Range	0.3m/2m/5m
Refresh Rate	50Hz
Repeatability	±5mm
Anti-interference	Anti Strong Light
Output Types	PNP/NPN RS485

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