



Gtekesens[®]

Company Profile

2024

TIANJIN G-TEK SENSOR TECHNOLOGY CO.,LTD

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About G-TEK Sensor





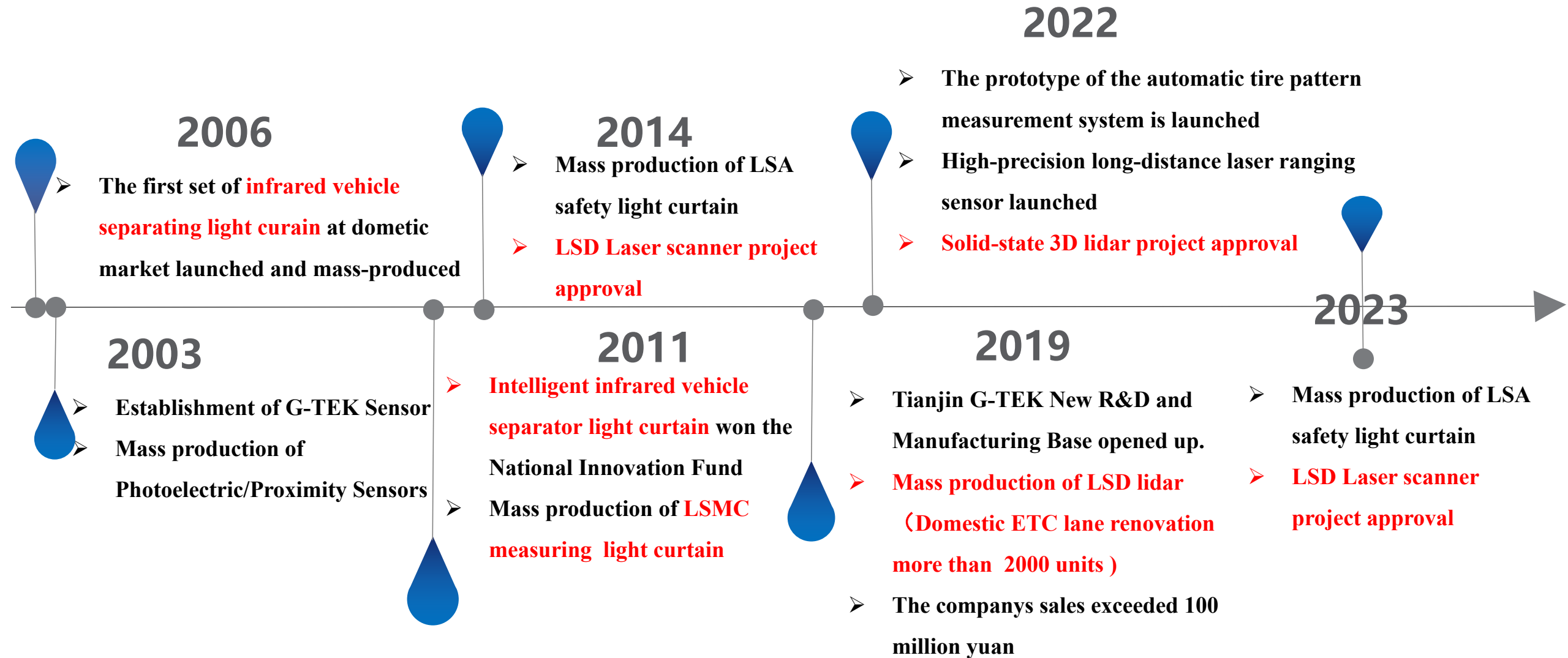
Founded in 2003

Lidar & Light Curtain & Sensor

Independent Intellectual Property

G-TEK is a scientific and technological enterprise specialized in intelligent **sensor products R&D, manufacture and customized system solutions provision**. We master the core technologies of key products such as **laser scanner, laser distance sensor, infrared light curtains, safety light curtains, photoelectric sensor and proximity switch**. 20 years of deep cultivation in the field of sensors, we have become one of the **top domestic sensor brands**, served in different industry fields such as **intelligent transportation, warehousing logistics, factory automation, industrial robots, Safety and security, etc.**, meanwhile established long-term and stable international trade cooperation with **overseas customers** all around the world.

Adhering to the core philosophy of "**devotion with enthusiasm , pursuit of perfection** "and the business purpose of "**customer priority, quality first**". G-TEK will continuously meet customers demands with high quality product and service , creating potential value for customers by technological innovation and cooperation.





Company Overview

122 employees (More than 50% are bachelor's degree or above);

4 operation teams (R&D center/ Manufacturing center/ Sales& Marketing center/ Administration center);

Sales & Marketing

6 sales teams : Transportation Division, Tianjin headquarters , East China Region, South China Region, international business and Key account.

Market development : Intelligent transportation, automobile inspection lines, security, and automatic doors, logistics automation, AGV, industrial robots, and factory automation.

Professional Pre sales and after-sales team: Plan the company's promotion and marketing activities, and provide pre-sales and after-sales services



**MATERIAL
CONTROL**



**PRODUCTION
CONTROL**



**INSPECTION
CONTROL**

R&D Center

24 professional R&D engineers including optics, mechanics, electronic hardware, software, etc.

Multiple patents of laser radar, high-precision laser measurement, infrared scanning light curtain, photoelectric switch, etc.

Manufacturing

Advanced production facilities and equipment:

- Photoelectric Sensor production line;
- Infrared light curtain production line;
- Laser scanner production line

One professional and young **technician team**;
Q&C team; **Logistics supply chain team**.

02

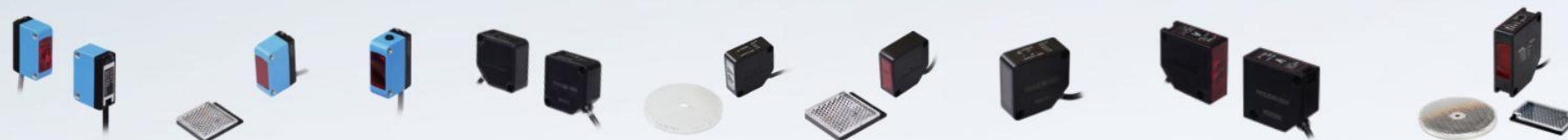
Core Products



接近传感器产品:
Proximity sensor



光电传感器产品:
Photoelectric sensor



红外扫描光幕产品:
Infrared Light Curtain



激光雷达产品:
Laser Scanner



激光测距产品:
Laser Ranging Sensor





接近传感器

Proximity sensor



接近传感器

接近传感器产品可分为圆柱型传感器、方型传感器和霍尔传感器，产品外形有圆柱型(M8、M12、M18、M30)和方型(F12、F17、F18、F80)，产品具有短路保护和电源逆极性保护，具有可靠的上电延时性能，防止误脉冲输出。主要应用于机床、冶金、物流、立体停车、轨道交通、电梯等行业。



光电传感器

Photoelectric sensor

- 距离最远: 200M
- 高低温: -40°C – 80°C
- 多种光源,国际最先进的pinpoint-LED



光电传感器

光电传感器产品可分为方型光电传感器、圆柱型光电传感器、槽型光电传感器和微型光电传感器,测量方式有对射式、镜反射式、漫反射式和背景消除型漫反射式,适用于闸机、电梯、门控、机械设备、物流、交通运输、立体停车和智能仓储等行业。



红外扫描光幕

Infrared scanning light screen



红外扫描光幕

红外扫描光幕包含 LSA 系列安全光幕、LSM 系列区域检测型光幕、LSE 系列经济型光幕、LHN 系列红外扫描光幕。

红外扫描光幕采用二次光学设计，距离远，抗光性强，防护性能好等特点。LSA 系列安全光幕，Type 4 高安全标准，使用简单，坚固、稳定。LSM (C) 系列光幕，检测能力强，精度高。LSE 系列光幕一体化成型，提高整体的防护性。LHN(C) 系列光幕，首创智能除霜系统，市场占有率高，识别率高，系统稳定



激光雷达 Laser radar



工业级激光雷达



交通信息检测



物流自动化



工业安防



AGV小车



机器人



SFL系列激光测距传感器

SFL series



SFL系列-精准的激光距离传感器，用于精准定位的需求

在定位堆垛机、起重机、自动驻车系统等其他移动机器时，除了准确性和重复性外，快速和停机短时间也是考虑的重要部分。SFL 系列专为在动态控制回路中实现较高驱动速度和快速处理信号而设计开发。实时的将信息发送至控制台，便于维护。丰富的接口和创新方案满足客户不同场景的需求。



03

Sensor Solution to Access control



Gate and Door Sensor solution

EASY YOUR GATING, SAFE YOUR LIVING



PF50R REFLECTIVE PHOTO SENSOR



01

Integrated molding

Water-proof, can be used indoor and outdoor

02

Aspheric optical lens

Eliminate light interference effectively

03

Free voltage

10-30V DC & 12-240V DC/AC meet different demands

04

Best sell

Most Popular model for industry door



FABRIC SOFT HIGH-SPEED DOOR



PF50R LASER REFLECTIVE PHOTO SENSOR



COLD STORAGE HIGH-SPEED DOOR



01

Visible laser spot

The visible laser spot ensures the easy alignment

02

Polarized sensor

Suppression of interference from highly reflective object

03

Stable and Durable

Reliable performance at rugged environment

04

New release

Special for cold storage door & garage door



PMF80R LASER REFLECTIVE PHOTO SENSOR

Long detection range

Excellent optical performance,
sensing range as far as 16m

Special optical lens

Eliminate stray light , overcome the
sunlight interference

Laser light source

With the high stability and
performance



LARGE INDUSTRY DOOR & HANGAR DOOR



PM18T THROUGH BEAM PHOTO SENSOR



01

Sturdy and Durable

Metal shell, Epoxy resin sealing can be against rugged environment.

02

Circuit Protection

Reverse polarity protection, over-current and over-voltage protection

03

Easy installing

Tighten screw easy for installing and fixing



METAL HARD HIGH-SPEED DOOR



LSE SERIES INFRARED LIGHT CURTAIN



Door Blanking

New light curtain for automatic gate and barrier gate ,Blanking function

Slim Shape

Slim shape can be installed in the door frame

Optical synchronization

Optical synchronous communication easy the wiring and installation

Modbus485 option

LSEC series with modbus485 serial interface



METAL HIGH-SPEED DOOR



PMF55T THROUGH BEAM PHOTO SENSOR

A/B frequency

A/B frequency option can solve the cross-interference problem among different sensors

Narrow light beams

Narrow light beams solve the detection problem on small-size object

Aspheric optical lens

Aspheric optical lens eliminate sunlight and stray light interference

Security & Safety

Anti -Collision , Anti -Climbing especially for Automatic sliding gate or cantilevered sliding gate



PT12T Mini SHAPE PHOTO SENSOR



MEDICAL DOOR



Compact design

12.5-13.5 mm diameter; Mini shape, can be applied to the miniaturization of devices

45°outlet cable

45°outlet mode allows fast mounting in a mounting hole



Safety circuit

Class II safety circuit design to be used for fault detection of sensor

"Snap-In" design

Snap-In mechanism easy the installing and maintance

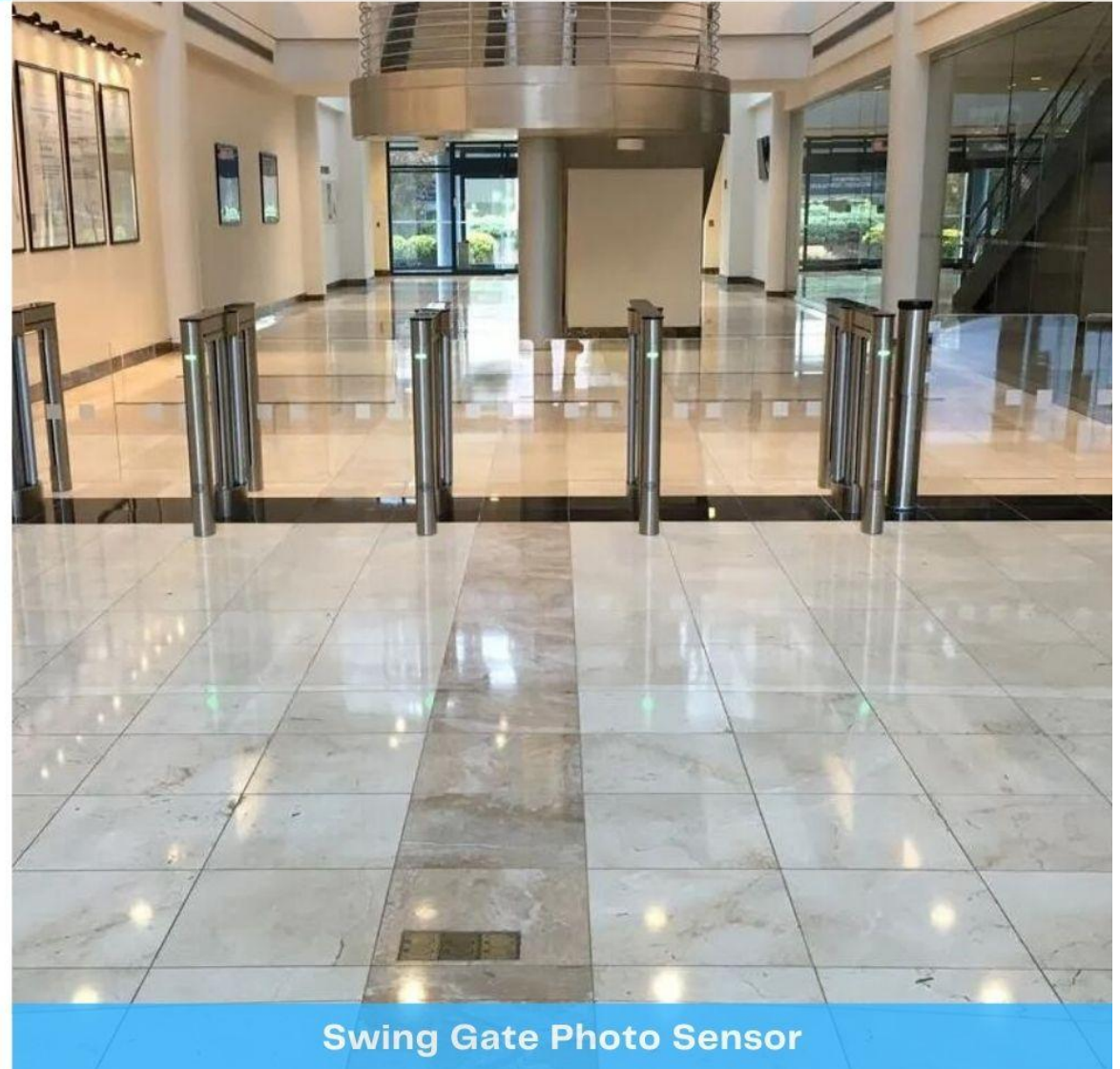
The background image shows a modern transit station with a series of turnstiles in the foreground. Above the turnstiles, several green illuminated arrows point upwards. The scene is brightly lit with overhead lights. A semi-transparent blue rectangular overlay covers the middle portion of the image, containing white text. The turnstiles have red and black panels with some Chinese text and logos. The floor is a light-colored, polished material.

G-TEK Sensor Solution for Pedestrian gate

PM18T Through Beam Photo Sensor



- **POPULAR MODEL FOR TURNSTILE GATES**
- **DETECTION DISTANCE: 20M**
- **CE CERTIFICATE**
- **REVERSE POLARITY PROTECTION OVER-CURRENT PROTECTION OVER-VOLTAGE PROTECTION**
- **EPOXY RESIN SEALING CAN BE AGAINST RUGGED ENVIRONMENT**



Swing Gate Photo Sensor



Swing Gate Photo Sensor

PS18T Through Beam Photo Sensor



- **HIGH STABILITY , ATTRACTIVE PRICE**
- **DETECTION DISTANCE: 20M**
- **CE / ROHS CERTIFICATE**
- **REVERSE POLARITY PROTECTION OVER-CURRENT PROTECTION OVER-VOLTAGE PROTECTION**
- **NEW OPTICAL STRUCTURE, EFFECTIVELY SUPPRESS LIGHT INTERFERENCE**



Flat Swing Gate Photo Sensor

PT12V Through Beam Photo Sensor

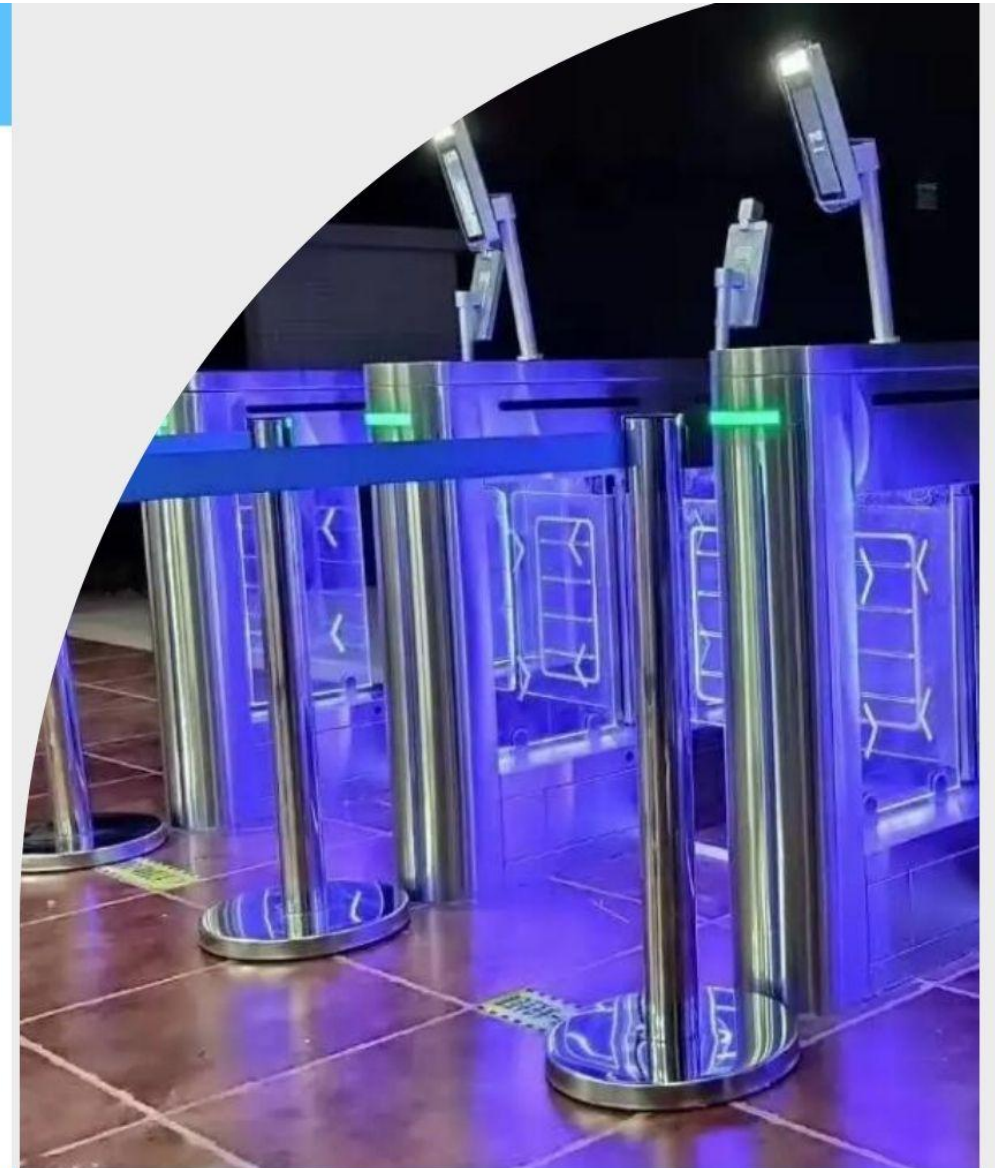


- **MINI-TYPE PHOTOELECTRIC SENSOR**
- **DETECTION DISTANCE: 10M**
- **CE CERTIFICATE**
- **A “SNAP-IN” MECHANISM AND 45°OUTLET MODE MAKE INSTALLATION MORE EASIER**
- **CLASS II SAFETY CIRCUIT DESIGN TO BE USED FOR FAULT DETECTION OF SENSOR**

PT18T Through Beam Photo Sensor



- **NEW PRODUCT WITH HIGH STABILITY & ATTRACTIVE PRICE**
- **DETECTION DISTANCE: 15M**
- **CE / ROHS CERTIFICATE**
- **REVERSE POLARITY PROTECTION OVER-CURRENT PROTECTION OVER-VOLTAGE PROTECTION**
- **NEW OPTICAL STRUCTURE, EFFECTIVELY SUPPRESS LIGHT INTERFERENCE**



Speed Gate Photo Sensor

PM21T Through Beam Photo Sensor



- **MINI-TYPE PHOTOELECTRIC SENSOR**
- **DETECTION DISTANCE: 15M/30M**
- **CE CERTIFICATE**
- **THE COMPACT DESIGN ENSURES THE APPLICATION AND INSTALLATION AT LIMITED SPACE**
- **NEW OPTICAL STRUCTURE, EFFECTIVELY SUPPRESS LIGHT INTERFERENCE**



Speedlane Gate Photo Sensor

04

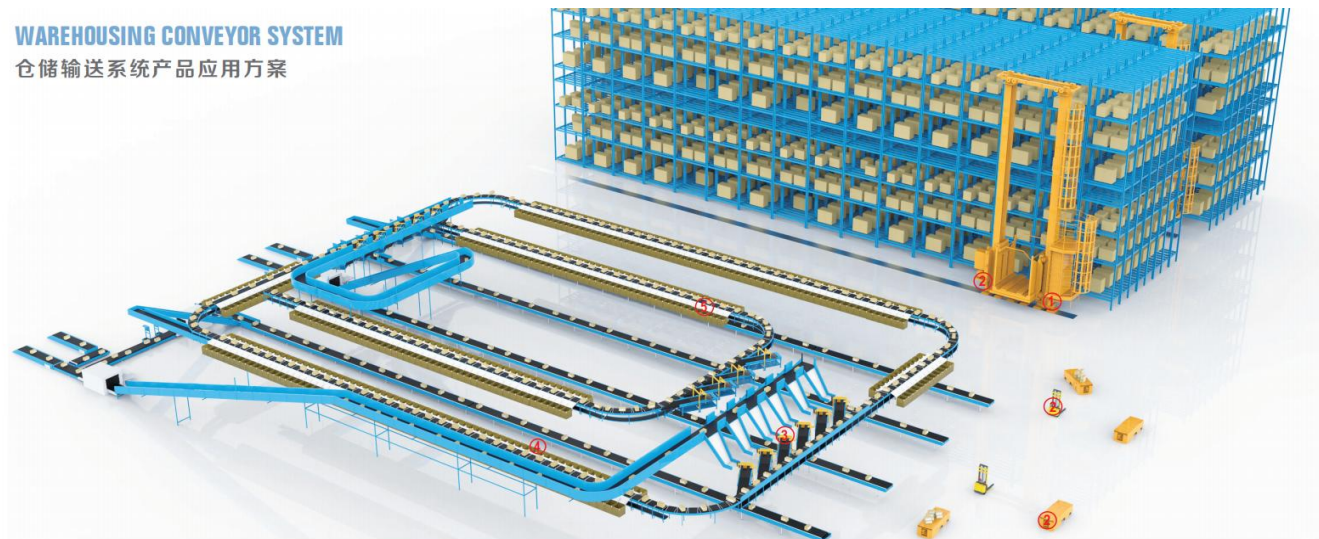
G-TEK Main Sensor Solution





WAREHOUSING CONVEYOR SYSTEM

仓储输送系统产品应用方案



场景②
激光雷达堆垛机应用、AGV、叉车应用



场景①
SFL激光测距堆垛机应用



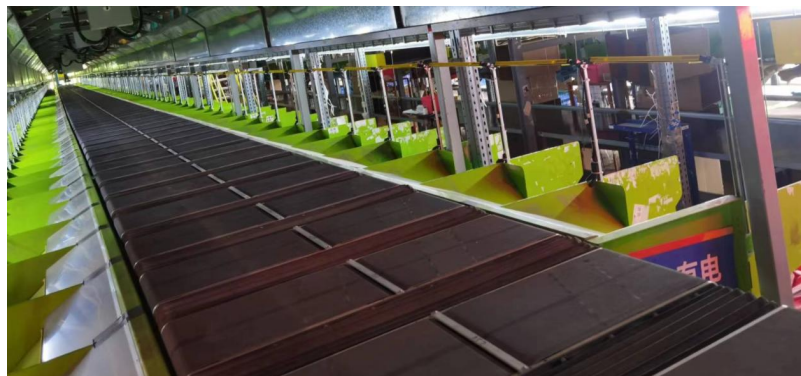
场景③
LSM(C)测量光幕供包台检测应用

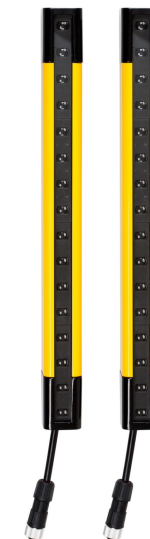


场景④
LSE(C)经济光幕常袋检测应用



场景⑤
PF21系列光电传感器满包检测应用





执行标准:
EN IEC 61496-1:2020
EN IEC 61496-2:2020
EN IEC 61496-1:2020 TYPE 4
EN IEC 61496-2:2020 TYPE 4
EN ISO 13849-1:2015 PL e



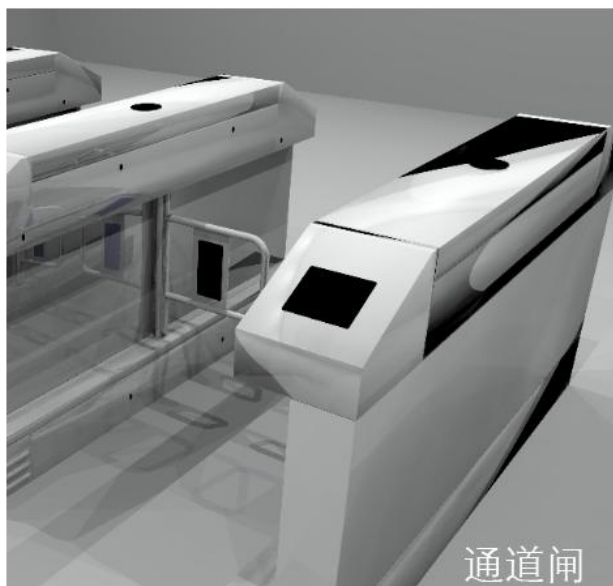
采用杰泰高科 PMF55 系列光电传感器，检测距离 60m. 采用对射式 A、B 频方式，互不串扰。适用于防撞、防夹、防爬等的功能应用。



悬浮门



旋转门



通道闸

采用杰泰高科 PF50 系列光电传感器，主要采用对射式，检测距离最大 50m；采用镜反射式，检测距离最大 8m，适用于安全防护的功能应用。



工业门



Gtekesens®

The multi lanes vehicle measurement system is a dynamic vehicle profile measurement quantity system derived from the single channel vehicle profile scheme. The measurement system processes the data collected from multiple data sources, restores the dimensional characteristics of the detected vehicle, and compensates for errors caused by high-speed driving with high-frequency pulse synchronization technology.



Gtekesens®

The LiDAR vehicle separation system is a fully laser scanning dynamic vehicle separation system developed by G-TEK company. The system actively scans the appearance of the vehicle to obtain real-time cross-sectional data, determine the presence and departure of the vehicle, and achieve the effect of vehicle separation..





Cooperative Enterprise

Gtekesens®



Access Control



Intelligent Transportation



Parking Equipment



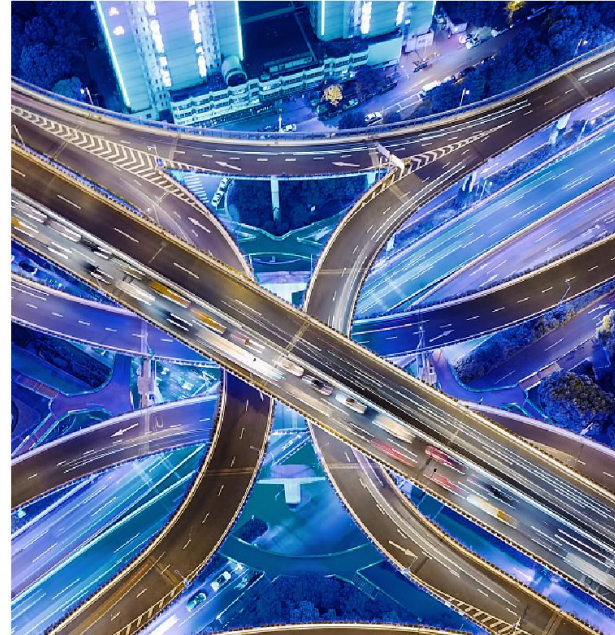
Car Inspection Station



Warehousing Logistics



Automotive manufacture



Thanks

天津杰泰高科传感技术有限公司
www.gteksensor.cn