

### safety mat

- Used to detect people or heavy objects weighing over 20 kilograms;
- Suitable for heavy-duty working conditions or special industrial occasions;
- Accept customization of non-standard sizes and irregular safety carpet products.

### Safety light curtain

- Multiple models available;
- Industrial automation production line, online protection to prevent people from entering and protect personal safety;
- Linkage with other intelligent devices to achieve more efficient production and safety management.

### safety relay

- Suitable for monitoring various signals in industrial sites with high safety requirements;
- Configure a multifunctional dial switch;
- Verified dual channel safety monitoring circuit design.

### Safety door lock

- Various contact configurations with locking function;
- Adapted to various operation keys, widely used in various fields;
- The switch head can be rotated 90° 4 times;
- Security door locks are usually the lowest cost solution.

### Laser scanning radar

- Used for AGV obstacle avoidance, safety protection in factory area operation areas, autonomous obstacle avoidance for service robots, etc
- Automatically scan the environment and generate areas;
- It can effectively recognize target objects in complex environments.

Introduction to Safety Light Curtain Sensors

The safety light curtain is an electrical induction protective device composed of a receiver, transmitter, and receiver.

The safety light curtain aims to protect the safety of operators from danger sources, and is commonly used on fence equipment to sense and detect objects in the area to immediately stop operation.

DADISICK Safety Light Curtain is a product developed based on the rich experience accumulated in the development of industrial sensors such as regional sensors and mapping sensors, and in accordance with international specifications/regulations. It not only provides flexible on-site design but also enhances safety related functions to achieve the mission of safeguarding on-site safety.



Quick selection of safety light curtain sensors

### QC series

#### General

Technical Parameter	
Cross-sectional area	30x30mm
Number of optical axes	4-32 axes
Protection height	50-1240mm
Beam pitch	10/14/20/25/30/40/80/200mm
working voltage	24V DC ±10%
Consumption current	< 200mA
Synchronization type	Line synchronization
response time	≤15ms
Output mode	NPN/PNP

### QA/QT series

#### Long-range targeting type

Technical Parameter	
Cross-sectional area	35x51mm
Number of optical axes	4-32axes
Protection height	110-2130mm
Beam pitch	10/14/20/25/30/40/80/200mm
working voltage	24V DC ±10%
Consumption current	< 200mA
Synchronization type	Line synchronization
response time	≤15ms
Output mode	NPN/PNP

### FT series

#### Economy Mini

Technical Parameter	
Cross-sectional area	23x25mm
Number of optical axes	4-200axes
Protection height	70-7960mm
Beam pitch	10/14/20/40mm
working voltage	24V DC ±10%
Consumption current	< 200mA
Synchronization type	Line synchronization
response time	≤15ms
Output mode	NPN/PNP

### KT series

#### Economical

Technical Parameter	
Cross-sectional area	29.3x29.3mm
Number of optical axes	4-200axes
Protection height	70-7960mm
Beam pitch	10/14/20/40mm
working voltage	24V DC ±10%
Consumption current	≤200mA
Synchronization type	Optical synchronization
response time	≤15ms
Output mode	NPN/PNP

### QRF series

#### Super waterproof type

Technical Parameter	
Cross-sectional area	Φ 48mm
Number of optical axes	4-32axes
Protection height	50-2480mm
Beam pitch	10/14/20/25/30/40/80mm
working voltage	24V DC ±10%
Consumption current	< 200mA
Synchronization type	Line synchronization
response time	≤15ms
Output mode	NPN/PNP

### QCE series

#### Automated

Technical Parameter	
Cross-sectional area	30x30mm
Number of optical axes	4-72axes
Protection height	70-7960mm
Beam pitch	10/20/30/40mm
working voltage	24V DC ±10%
Consumption current	≤200mA
Synchronization type	Line synchronization
response time	≤15ms
Output mode	NPN/PNP

Quick selection of safety light curtain sensors

### QZ series

#### Ultra thin

Technical Parameter	
Cross-sectional area	17.2x30mm
Number of optical axes	6-32axes
Protection height	50-2480mm
Beam pitch	10/14/20/25/30/40/80mm
working voltage	24V DC ±10%
Consumption current	< 200mA
Synchronization type	Line synchronization
response time	≤15ms
Output mode	NPN/PNP

### QBT series

#### Ultra thin

Technical Parameter	
Cross-sectional area	30x15mm
Number of optical axes	4-200axes
Protection height	70-7960mm
Beam pitch	10/20/40mm
working voltage	24V DC ±10%
Consumption current	< 200mA
Synchronization type	Optical synchronization
response time	≤15ms
Output mode	NPN/PNP

### QT4 series

#### TYPE4 level

Technical Parameter	
Cross-sectional area	30x30mm
Number of optical axes	15-319axes
Protection height	105-9540mm
Beam pitch	7.5/15/30mm
working voltage	24V DC ±10%
Consumption current	≤200mA
Synchronization type	Line synchronization
response time	≤15ms
Output mode	NPN/PNP

### QO series

#### No blind spot type

Technical Parameter	
Cross-sectional area	30x28mm
Number of optical axes	4-72axes
Protection height	110-2130mm
Beam pitch	10/20/30mm
working voltage	24V DC ±10%
Consumption current	≤200mA
Synchronization type	Line synchronization
response time	≤15ms
Output mode	NPN/PNP

### QS/QV series

#### Photoelectric protection

Technical Parameter	
Cross-sectional area	35x51mm
Number of optical axes	4-72axes
Protection height	50-5680mm
Beam pitch	10/14/20/25/30/40/80mm
working voltage	24V DC ±10%
Consumption current	≤200mA
Synchronization type	Line synchronization
response time	≤15ms
Output mode	NPN/PNP

### QL/QM series

#### Measurement type

Technical Parameter	
Cross-sectional area	36x36mm
Number of optical axes	4-500axes
Protection height	75-4990mm
Beam pitch	12.5/2.5/5/10/20/40/80mm
working voltage	24V DC ±10%
Consumption current	≤200mA
Synchronization type	Line synchronization
response time	≤15ms
Output mode	NPN/PNP/485/232 I:4-20mA;U:1-5V

### QLV series

#### Vehicle separation type

Technical Parameter	
Cross-sectional area	35x51mm
Number of optical axes	4-36axes
Protection height	60-1420mm
Beam pitch	10/14/20/25/30/40/80/200mm
working voltage	24V DC ±10%
Consumption current	≤200mA
Synchronization type	Line synchronization
response time	≤15ms
Output mode	NPN/PNP

### QSA series

#### Regional security protection

Technical Parameter	
Cross-sectional area	30x51mm
Number of optical axes	4-72axes
Protection height	120-3920mm
Beam pitch	40/80mm
working voltage	24V DC ±10%
Consumption current	≤200mA
Synchronization type	Line synchronization
response time	≤15ms
Output mode	NPN/PNP

Applicable scenarios

Safety light curtains are widely used in over 80% of equipment such as automation equipment, presses, hydraulic presses, hydraulic presses, automatic doors, and other hazardous situations.

COMPANY PROFILE

Dongguan Dadi Electronic Technology Co., Ltd. was established in 2006, formerly known as Dongguan Dadi Machine Tool. Established in 2010, Dongguan Dadi is a professional optoelectronic technology enterprise engaged in product technology research, development, production, sales, and agency of light, electricity, and machinery. It is a professional manufacturer of optoelectronic products and has been focusing on mid to high end light curtains for 18 years. It is known as the "best safety protection expert". Dedicated to preventing finger breakage and other stamping accidents, our product series includes photoelectric safety protectors (safety light curtains, safety gratings), measurement light curtains, detection light curtains, vehicle separation equipment, ultrasonic sensors, laser displacement sensors, safety door locks, safety carpets, etc. The company currently holds nine national patents, more than 20 national authoritative agency testing reports and quality certification certificates, including CE certification. In 2018, it was awarded the honorary title of "High tech Enterprise", which proves that Dadi has strong technological innovation ability and high-end technology development ability in the field of safety light curtains.

For many years, Dadi has been committed to providing customers with safe, reliable, and high-quality products. Through unremitting efforts, continuous transformation, and improvement, Dadi's products have been sold throughout the country and in Central and South Asia, with customers covering major automotive manufacturing, home appliance manufacturing, hardware processing, and forging equipment industries across the country. Widely used in stamping machinery, shearing machines, bending machines, injection molding machines, etc. to ensure the safety of operators.



TUV South Germany Certification Testing  
UL American Certified Testing  
ISO9001:2015 certification  
CE certification

Laser scanning radar



name	2D TOF obstacle avoidance laser scanning radar	2D single line LiDAR	Measurement type single layer scanning LiDAR	Diffuse reflectance measurement type Single layer scanning LiDAR
model	LD-05D/LD-20D	LD-50G	LDS2030B5-5S	LD-100R
Size (LxWxH)	50x50x76mm	60x60x84.5mm	80x85x102mm	90x97x90mm
Work Area	0.05m-20m	20m-50m	0.1m-20m	0.1m-100m
Scanning angle range	270°	270°	300°	360°
Scanning frequency	15Hz/30Hz	10Hz-20Hz	25Hz	10Hz-20Hz
Supply voltage	DC 9V-28V	DC 10V-30V	DC 10V-30V	DC 10V-30V
power dissipation	2W	2.5W	3.4W-7.6W	6W DC24V
weight	150g	205g	0.6kg	0.7kg

Safety door lock/safety door switch

**OX-W5**

- 6 sets of gold plated contacts
- 4 contact combinations
- 7 types of operation keys
- Locking force 1300N
- Indicator light+emergency unlocking
- DC24V/AC110V

**OX-D2/D3**

- Full range of gold-plated contacts
- 5contact combinations
- 7 types of operation keys
- Suitable for standard and small loads
- Compact design saves space
- Locking force 1300N
- IEC/EN60947-5-1
- GB14048.5-2017

**OX-W3**

- 2 sets of gold plated contacts
- 6contact combinations
- Compact design saves space
- Locking force 1300N
- Indicator light+emergency unlocking
- 7 types of operation keys

**OX-W2**

- 4 sets of gold plated contacts
- 14 contact combinations
- 7 types of operation keys
- Locking force 1300N
- ndicator light+emergency unlocking
- Optional back unlocking function

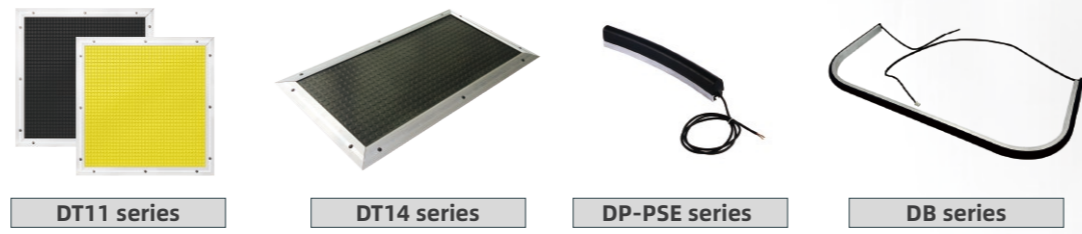
safety relay

- 1.Comply with EN/ISO13849-1Cat. 4 safety requirements
- 3.Suitable for monitoring various signals in industrial sites with high safety requirements;
- 2.Verified dual channel safety monitoring circuit design
4. Configure a multi-functional dial switch that can be used for various application functions.

QSRN			LS-A		
	Power supply	24V DC		Power supply	24V DC
	Voltage tolerance	+10%-20%		Voltage tolerance	+10%-20%
	power dissipation	2.9W		power dissipation	2.9W
	size	114.5mmx100.5mmx22.5mm		size	112mmx99.5mmx22.6mm
	weight	172g		weight	172g
Relay safety output		3NO+1NC	Relay safety output		3NO+1NC

Consult customer service for product details

Safety carpet/safety edge



Laser displacement sensor/color sensor



Ultrasonic sensor



Proximity sensor



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Sensor Comprehensive Catalog

Dongguan Dadi Electronic Technology Co., Ltd.