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Focus on high-end quality

CE ISO9001:2015
RoHS IP65

Technology changes the future

COMPREHENSIVE CATALOG OF SENSORS **Safety light curtain**

Safety light curtain/Safety laser scanner/safety mat/safety edge/safety relay/Photoelectric switch

Safety light curtain application case



Other product application cases





Model-CST

Photoelectric safety protection device

- Passive pulse output logic function is more perfect
- Optoelectronic signal and equipment control isolation design
- Can effectively shield 99% of interference signals
- Polarity, short circuit, overload protection, self-check



It is widely used in large machinery such as presses, hydraulic presses, hydraulic presses, shears, automatic doors, or dangerous occasions that require long-distance protection.



Ultra long sensing distance : 10m、20m、30m



◆ Product characteristics

- ★ Perfect self-check function: When the safety screen protector fails, ensure that the wrong signal is not sent to the controlled electrical appliances.
- ★ Strong anti-interference ability: The system has good anti-interference ability to electromagnetic signal, stroboscopic light, welding arc and surrounding light source;
- ★ Easy installation and debugging, simple wiring, beautiful appearance;
- ★ Surface mounting technology is adopted, which has superior seismic performance.
- ★ It conforms to IEC61496-1/2 standard safety grade and TUV CE certification.
- ★ The corresponding time is short ($\leq 10\text{ms}$), and the safety and reliability performance is high.
- ★ The dimension design is 35mm*51mm. The safety sensor can be connected to the cable (M12) through the air socket.
- ★ All electronic components adopt world-renowned brand accessories.

◆ Product configuration

The controller, the light emitter, the light receiver, the transmission line and the power line are composed.



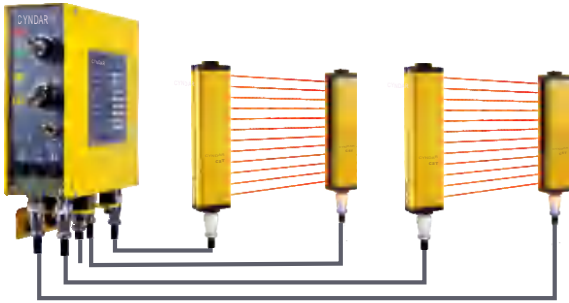
External controller QSW



Five core (transmitting 2.5m, receiving 3.5m) data line

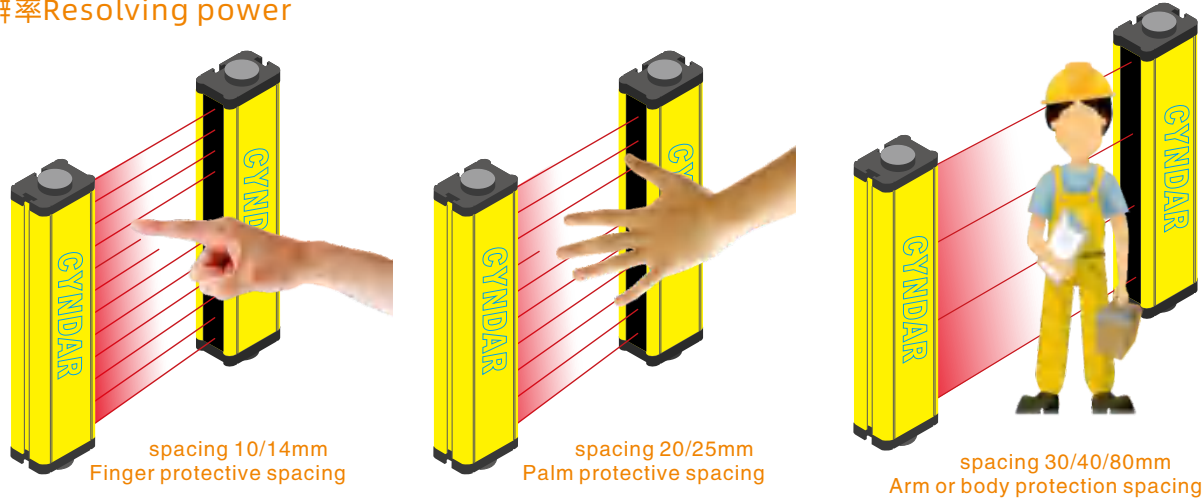


Built-in controller QSN



QSS series double-sided photoelectric safety protector

◆分辨率Resolving power



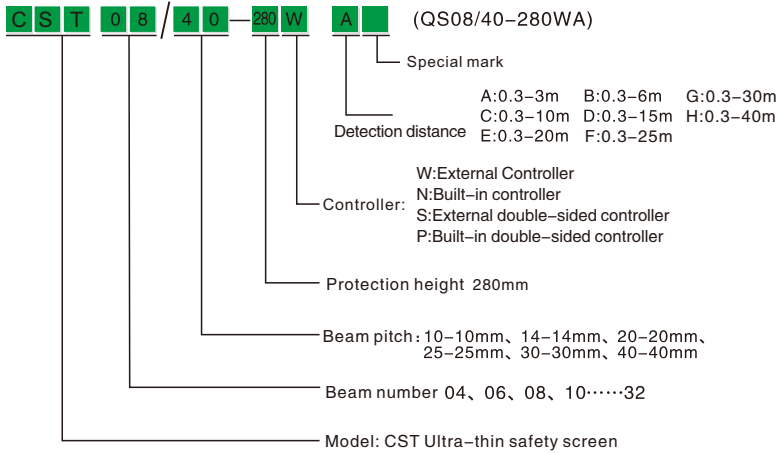
◆ List of safety interface technical parameters (illuminator, receiver)

Working power	DC12V	Output current	≤300mA
Output form	DC output	Power isolation form	DC-DC
Pulse output voltage	DC5V	Output isolation form	Optocoupler isolation

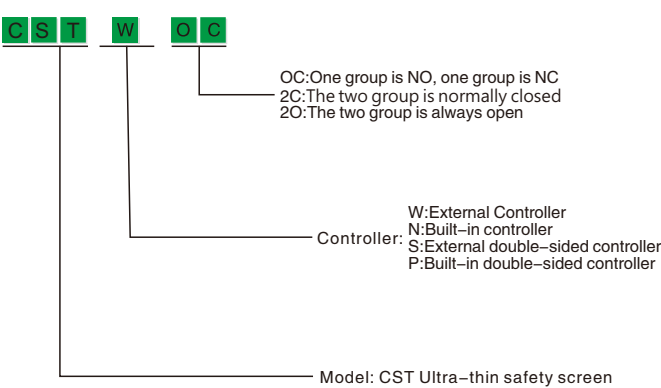
◆ Technical parameters of products

Supply voltage	AC110~220V ± 15% 50/60Hz					
Consumption current	≤200mA					
Output state	Double relay, double output, normally closed, often open a group					
Output Contact Capacity	AC250V/5A或DC30V5A					
Indicator light	Projector: Power indicator (red); Receiver: Output indicator (green) shading (red)					
Light source	Modulated Infrared LED					
Connection mode	Circular aviation socket with special connecting cable, 4 cores of projector and 5 cores of receiver					
Shell material	Aluminum alloy, end cover: ABS reinforced nylon					
Environmental light resistance	Incandescent light: illumination of the receiving surface 3000Lx; sunlight: illumination of the receiving surface 10000Lx					
Ambient temperature	When working: - 10 ~ + 40 C (but not freezing), when preserved: - 25 ~ + 55 C					
Ambient humidity	Work: 35~85% RH, save: 35~95% RH					
Light curtain form	Counter shooting					
Beam pitch	10mm	14mm	20mm	25mm	30mm	40mm
Check the accuracy	18mm	22mm	28mm	33mm	38mm	48mm
Beam number	6、8…32	6、8…32	4、6…32	6、8…32	4、6…32	4、6…32
Height of protection	Beam pitch X (Beam number-1)					
Detection distance	0.3~3m 0.3~6m 0.3~30m					
Response time	≤10ms					
Anti light interference	10000Lux(Incidence angle ≥5°)					
Outline size	35x51xLmm(L is the length of light emitter/receiver)					
Protection level	IP65					
Controller	QSW、QSN、QSS、QSP					

◆ CST ultra-thin safety light curtain specification sheet is as follows

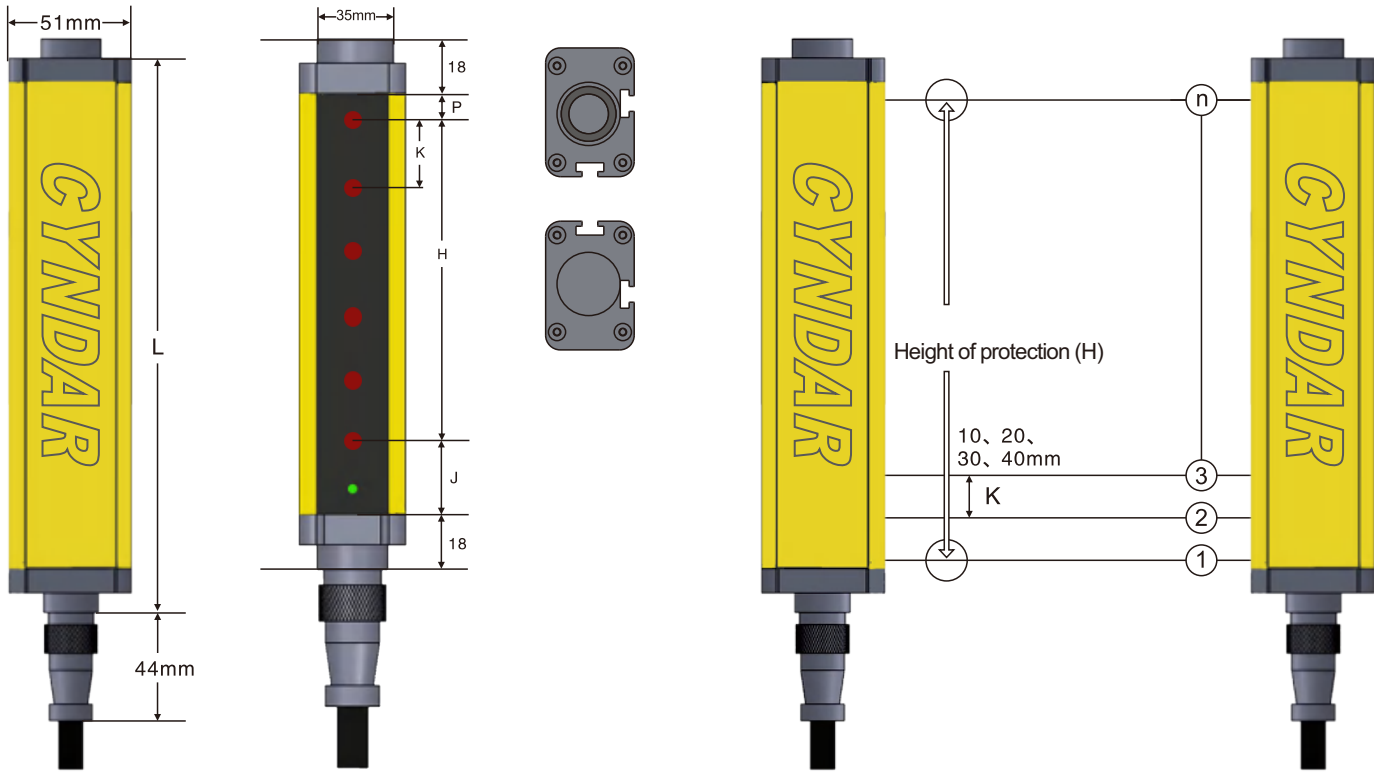


◆ CST Controller Specification Table



Please see the specification table on the next page for detailed models.

◆ Dimensions



Remarks

$H = (n - 1) * K$ = Height of detection L: Total length of light screen

K: Optical axis spacing n: Optical axis number

$L = P + H + J + 18\text{mm} + 18\text{mm}$

K (mm)	10	14	20	25	30	40	80
P (mm)	5	7	10	12.5	15	20	40
J (mm)	32	32	25	25	25	25	25

QSN Connection Diagram of CSTN Built-in Controller

[illegible]