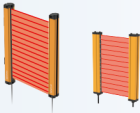
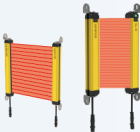




Area/Safety Light Curtain

Area sensors 	Thin anti-interference type	SA-V	P.0845 ▶
	Abnormal detection type	SA-M	P.0851 ▶
	Robust type	SA-H	P.0855 ▶
Safety light curtain 	Class 2 safety light curtain	SA2A	P.0861 ▶
	Class 4 safety light curtain	SL-R	P.0867 ▶
Measurement light curtain 	Measurement light curtain	SA-T	P.0875 ▶

SA-V	Area/Safety Light Curtain
SA-M	
SA-H	
SA2A	
SL-R	
SA-T	
Fiber Optic Sensors	
Photoelectric Sensors	
Color Sensors	
Laser Sensors	
Inductive Proximity Sensors	
Precision Contact Sensors	
Area/Safety Light Curtain	
Laser Scanners	
Digital Contact Sensors	
Laser Displacement Sensors	
Confocal Displacement Sensors	
Barcode Scanners	
RFID	
Infrared Temperature Sensors	
Digital Pressure Sensors	
Flow Test Sensors	
Gate Magnetic Sensors	
Ultrasonic Displacement Sensors	
Magnetic Scale	
Static Eliminators	

What is an area sensor / safety light curtain ?

- Area Sensors** apply infrared scanning detection technology. They create an infrared area barrier by emitting infrared light from a transmitter to a receiver, detecting objects passing through this area to control equipment stopping or preventing equipment from starting accidentally.
- Safety light curtain** use unique synchronous scanning technology, with dual outputs and comprehensive self-check functions. They are suitable for applications where equipment protection levels are high.

Area sensors / safety light curtain selection points

- Detecting distance**: the maximum distance between the emitter and receiver in normal operation of area sensors/safety light curtain.
- Detection height**: the distance from the lowest to the highest point within the effective detection range.
- Beam axis spacing**: **area sensors/safety light curtain** are composed of multiple light axes, with the distance between the centers of two light axes being the light axis spacing.

Selection Step

step 1

Determine beam axis spacing

step 2

Determine detecting distance

step 3

Determine beam axis number

step 4

Determine output signal

step 5

Determine mounting type

step 1

Select the light axis spacing based on the size of the detected object.

Beam axis spacing 10mm
(Minimum detectable object Φ14mm)

Beam axis spacing 20mm
(Minimum detectable object Φ25mm)

Beam axis spacing 40mm
(Minimum detectable object Φ45mm)

step 2

Determine detecting distance

Transmitter

Receiver

Detecting distance

Beam axis

step 3

Determine beam axis number

Detection height

Beam axis spacing

Beam axis number = detection height÷beam axis spacing + 1

step 4

Determine output signal

NPN normally closed: output 0V during normal light transmission and no output

NPN normally open: no output during normal light transmission, 0V during light blockage.

PNP normally closed: output 24V during normal light transmission, no output during light blockage.

PNP normally open: no output during normal light transmission, 24V during light blockage.

step 5

Determine mounting type

L-shaped side mount

Upper and lower front mount

Front mount

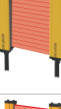
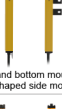
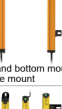
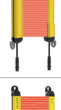
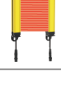
Side mount

With mounting holes

SENPU

0843

Selection Guide

Type	Series	Features	Appearance	Bracket
Thin anti-interference type	SA-V series	Strong resistance to electromagnetic and light interference, with a front width of only 21.7mm, less than the size of a 1-yuan coin, IP165 protection level, superior dust and water resistance.	 Cross section is 21.7×26.4mm	 L-shaped side mount
Abnormal detection type	SA-M series	Adaptive functionality for clear detection of product height / width/thickness, with ultra-small light axis spacing suitable for smaller-sized detected objects.	 Cross section is 52×37mm	 Side mount / Front mount
Robust type	SA-H series	Detecting distance 0.1~25m Extremely robust, excellent impact resistance, number of light axes, and detection height can be selected according to actual requirements.	 Cross section is 35×35mm	 Top and bottom mount / L-shaped side mount
Class 2 safety light curtain	SA2A series	Both PNP/NPN output modes can be selected, using dual -signal high-frequency self-test principle to ensure safety. Light axis spacings of 20mm/40mm/80mm are suitable for different objects.	 Cross section is 25×31mm	 Top and bottom mount / Side mount
Class 4 safety light curtain	SL-R series	Good universal standard size, sturdy and durable with dual-signal output, ensuring accurate detection.		 Front side mount / L-shaped mount
Measuring light curtain	SA-T series	Can read the light transmission and shading status of each beam according to on-site requirements, flexibly process data, and support multiple interface outputs.		 Front side mount / T-shaped mount