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|-------------------------------|---|
| Appearance | |
| Security Level | Type 4 Cat.4 PLe |
| Executive standard | GB/T19436.1; GB/T 19436.2; GB4584-2007; IEC 61496-1; IEC61496-2 |
| Light source | Infrared LED (center wavelength 940nm) |
| Sectional area | 52X35mm |
| NO.of beams | 4~72 |
| Protection height | 130~3000mm |
| Protection distance | 0.1~40m |
| Beam pitch | 10/20/30/40mm |
| Min. sized detectable objects | > ϕ 18/ ϕ 28/ ϕ 38/ ϕ 48mm, Opaque |
| EAA | Meet the requirements of IEC 61496-2, when the detection distance is more than 3m, EAA <2.5° |
| Supply voltage | 24V DC \pm 10% |
| Current consumption | Transmitter \leq 300mA; Receiver \leq 100mA (Non load) |
| Output type | PNP (Two groups) |
| EMC EMS | Comply with the requirements of Class 4 safety light curtain in GB / T19436-1 and GB4584-2007 |
| EMC EMI | Comply with EN61326-1 and EN55011 electromagnetic field requirements for industrial sites |
| Response time | \leq 20ms |
| Output characteristics | PNP transistor output X2 (ON), load current is less than 300mA, residual voltage is less than 3.5V (excluding the effect of wire extension) |
| Ambient temperature | Operating: $-10^{\circ}\text{C} \sim +55^{\circ}\text{C}$ (No freezing and no condensation) ; Storage: $-10^{\circ}\text{C} \sim +55^{\circ}\text{C}$ |
| Ambient humidity | Operating: 35~85%RH; Storage: 35~95%RH |
| Anti-interference ability | Incandescent: 3000Lux; Fluorescent: 3000Lux; Sunlight: 10000Lux |
| Vibration resistance | Frequency: 10 ~ 55Hz; amplitude: 0.35 \pm 0.05mm; Scanning times: three axes, 20 times per axis |
| Impact resistance | Acceleration 10g, pulse duration: 16ms, number of collisions: three axes, 1000 \pm 10 times per axis |
| Degree of protection | IP65 |
| Supporting controller | Not equipped with controller; or equipped with CSRMB module, output relay passive contact signal |
| Accessories | Transmission line, mounting bracket |

Product description

Safety light curtain integrated controller function into the sensor, is designed for risk assessment does not need to be equipped with a controller and need to have level signal control of equipment (for example: using PLC, computer-controlled equipment) to provide photoelectric protection device, can output two safe PNP signal.

Meets the requirements of safety level IV. SAF series photoelectric protection device can effectively detect any opaque objects that enter the light curtain area beyond the detection accuracy. It is suitable for the safety protection of mechanical presses, hydraulic presses, shearing machines, bending machines and other dangerous occasions. Can be used for detection and anti-theft.

Features

- Perfect self-test function, realizing full self-test including output signal.
- Floating shield function can be realized, which is convenient to realize the processing of long materials;
- Provide two relay passive contact outputs, higher safety performance
- High detection accuracy up to 18mm, which can protect fingers
- Large detection distance, up to 40m;
- Large detection height, up to 2840mm;
- Multiple product specifications, wide range of application;
- Can provide split indication function, intuitive display of beam on/off status.
- Good vibration damping performance, suitable for high-speed punching, large tonnage presses, long service life.
- Strong resistance to light interference and electromagnetic interference; more stable work.
- When configured with safety relay module, it can provide 3 normally open and 1 normally closed output and 2 normally open and 1 normally closed output in two forms.

Light curtains

- Standard type
- Top-emitting type
- Side-emitting type
- Waterproof type
- Measuring type
- Economical type

Safety Light Curtain

- Beam pitch 10mm
- Beam pitch 20mm
- Beam pitch 30mm
- Beam pitch 40mm

LIDAR scanner

- TOF LIDAR scanner
- MINI LIDAR scanner
- Navigation LIDAR

SAF10

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|-------------------------------|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------|----------------------------|
| Beam pitch | 10mm | | | | | | | |
| Min. sized detectable objects | φ 18, opaque | | | | | | | |
| Protection distance | Type A: 0~3m; Type B: 0~12m; Type C: 8~20m; | | | | | | | |
| NO.of beams | 16 | 20 | 24 | 28 | 32 | | 72 | |
| Protection height | 150mm | 190mm | 230mm | 270mm | 310mm | | 710mm | |
| Light curtain height | 239mm | 279mm | 319mm | 359mm | 399mm | | 799mm | |
| Model NO. | PNP NC | SAF10-T16 ⁰³ PC | SAF10-T20 ⁰³ PC | SAF10-T24 ⁰³ PC | SAF10-T28 ⁰³ PC | SAF10-T32 ⁰³ PC | | SAF10-T72 ⁰³ PC |
| | Other | 03: Type A 0~3m | | 12: Type B 0~12m | | 20: Type C 8~20m | | |

SAF20

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|-------------------------------|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------|----------------------------|
| Beam pitch | 20mm | | | | | | | |
| Min. sized detectable objects | φ 28, opaque | | | | | | | |
| Protection distance | Type A: 0~3m; Type B: 0~12m; Type C: 8~20m; | | | | | | | |
| NO.of beams | 8 | 10 | 12 | 14 | 16 | | 72 | |
| Protection height | 140mm | 180mm | 220mm | 260mm | 300mm | | 1420mm | |
| Light curtain height | 239mm | 279mm | 319mm | 359mm | 399mm | | 1519mm | |
| Model NO. | PNP NC | SAF20-T08 ⁰³ PC | SAF20-T10 ⁰³ PC | SAF20-T12 ⁰³ PC | SAF20-T14 ⁰³ PC | SAF20-T16 ⁰³ PC | | SAF20-T72 ⁰³ PC |
| | Other | 03: Type A 0~3m | | 12: Type B 0~12m | | 20: Type C 8~20m | | |

SAF30

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|-------------------------------|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------|----------------------------|
| Beam pitch | 30mm | | | | | | | |
| Min. sized detectable objects | φ 38, opaque | | | | | | | |
| Protection distance | Type A: 0~3m; Type B: 0~12m; Type C: 8~20m; | | | | | | | |
| NO.of beams | 6 | 8 | 10 | 12 | 14 | | 72 | |
| Protection height | 150mm | 210mm | 270mm | 330mm | 390mm | | 2130mm | |
| Light curtain height | 239mm | 299mm | 359mm | 419mm | 479mm | | 2219mm | |
| Model NO. | PNP NC | SAF30-T06 ⁰³ PC | SAF30-T08 ⁰³ PC | SAF30-T10 ⁰³ PC | SAF30-T12 ⁰³ PC | SAF30-T14 ⁰³ PC | | SAF30-T72 ⁰³ PC |
| | Other | 03: Type A 0~3m | | 12: Type B 0~12m | | 20: Type C 8~20m | | |

SAF40

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|-------------------------------|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------|----------------------------|
| Beam pitch | 40mm | | | | | | | |
| Min. sized detectable objects | φ 48, opaque | | | | | | | |
| Protection distance | Type A: 0~3m; Type B: 0~12m; Type C: 8~20m; | | | | | | | |
| NO.of beams | 4 | 6 | 8 | 10 | 12 | | 72 | |
| Protection height | 120mm | 200mm | 280mm | 360mm | 440mm | | 2840mm | |
| Light curtain height | 239mm | 319mm | 399mm | 479mm | 559mm | | 2959mm | |
| Model NO. | PNP NC | SAF40-T04 ⁰³ PC | SAF40-T06 ⁰³ PC | SAF40-T08 ⁰³ PC | SAF40-T10 ⁰³ PC | SAF40-T12 ⁰³ PC | | SAF40-T72 ⁰³ PC |
| | Other | 03: Type A 0~3m | | 12: Type B 0~12m | | 20: Type C 8~20m | | |

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- Vibration
- Temperature
- Cables
- Tester

Guidance

Light curtains

- Standard type
- Top-emitting type
- Side-emitting type
- Waterproof type
- Measuring type
- Economical type

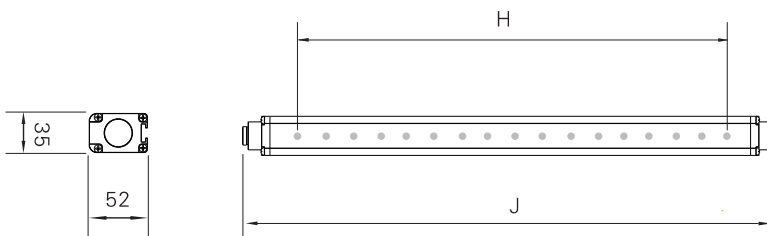
Safety Light Curtain

- Beam pitch 10mm
- Beam pitch 20mm
- Beam pitch 30mm
- Beam pitch 40mm

LIDAR scanner

- TOF LIDAR scanner
- MINI LIDAR scanner
- Navigation LIDAR

Dimensions(Unit:mm)



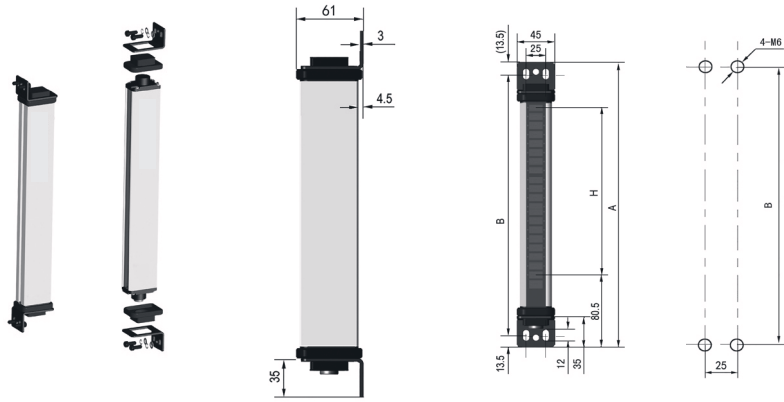
H: Protection height
J: Length of light emitter and light receiver

Safety Light Curtain

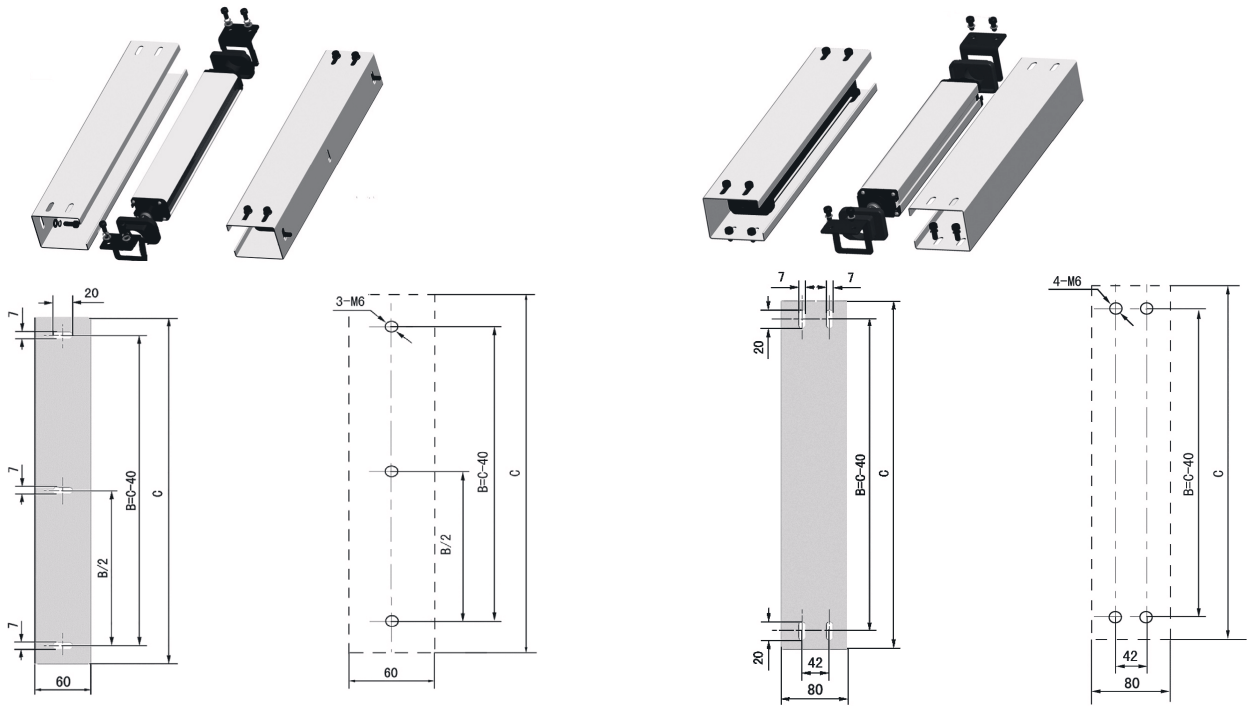
Installation Method

Area

Front and side integrated installation method (ZC)



Protective cover installation method (FZC)



Formal installation of protective cover

Side-mounted protective cover

Connection diagram

