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**FIBER** SENSORS

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SENSORS AREA SENSORS

# SAFET' COMPONENTS

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**Light Curtains** 

SF4B

SF2B

BSF4-AH80

Control Units SF-C10

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Definition of

# Small Light Curtain Type 4

# SF4-AH

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CE Conforming to Machine & EMC Directive



Conforming to OSHA / ANSI



SUNX website http://www.sunx.com

# Compact size of 21 × 28 mm 0.827 × 1.102 in Type 4 light curtain

# ORDER GUIDE

Related Information

Mating cable is not supplied with the light curtain. Please order it separately. **Light curtains** 

Model No. (Note 2) Number of Protective height Operating Type Appearance range (Note 1) NPN output equivalent type PNP output equivalent type beam channels (mm in) (Note 3) 190 7.480 SF4-AH8-N SF4-AH8 Beam channel No. SF4-AH12-N SF4-AH12 12 270 10.630 SF4-AH16-N SF4-AH16 16 350 13.780 25 mm SF4-AH20-N SF4-AH20 20 430 16.929 SF4-AH24 510 20.079 SF4-AH24-N 24 SF4-AH28-N SF4-AH28 28 590 23.228 32 670 26.378 SF4-AH32-N SF4-AH32 Normal case Protective height SF4-AH36-N SF4-AH36 36 750 29.528 20 mm SF4-AH40-N SF4-AH40 830 32.677 40 SF4-AH48-N SF4-AH48 48 990 38.976 1.150 45.276 SF4-AH56 SF4-AH56-N 56 SF4-AH64-N SF4-AH64 64 1,310 51.575 0.5 m 4 640 SF4-AH72-N SF4-AH72 72 1,470 57.874 1 SF4-AH80-N SF4-AH80 80 1,630 64.173 SF4-AH88-N SF4-AH88 88 1.790 70.472 Optional mating cable SF4-AH96-N SF4-AH96 96 1,950 76.772 SF4-AH8-H 8 190 7.480 Beam channel No. 0.3 to 7 m SF4-AH12-H 12 270 10.630 0.984 to 22.966 ft SF4-AH16-H 16 350 13.780 25 mm SF4-AH20-H 20 430 16.929 With spatter protection hood SF4-AH24-H 24 510 20.079 SF4-AH28-H 590 23.228 28 Protective height SF4-AH32-H 32 670 26.378 SF4-AH36-H 36 750 29 528 SF4-AH40-H 40 830 32.677 SF4-AH48-H 990 38.976 48 1,150 45.276 SF4-AH56-H SF4-AH64-H 64 1,310 51.575 25 mm 0.5 m 1.640 SF4-AH72-H 72 1,470 57.874 SF4-AH80-H 80 1,630 64.173 SF4-AH88-H 88 1,790 70.472 Optional mating cable SF4-AH96-H 96 1,950 76.772

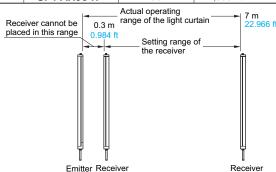
Notes: 1) The operating range is the possible setting distance between the

The light curtain can detect an object less than 0.3 m 0.984 ft away. 2) The model No. with suftix "P" shown on the label affixed to the product is the emitter, "D" shown on the label is the receiver.

(e.g.) Emitter of SF4-AH8-N: SF4-AH8P-N

Receiver of SF4-AH8-N: SF4-AH8D-N

3) Refer to the "Definition of light curtain and area sensor sensing heights" (p.589) for the definition of the protective height.





# ORDER GUIDE

Mating cables Mating cable is not supplied with the light curtain. Please order it separately.

| Designation                        | Appearance | Model No.  | Description  |  |  |  |  |
|------------------------------------|------------|------------|--|--|--|--|--|
|                                    |            | SF4A-CC3   | Length: 3 m 9.843 ft<br>Net weight: 380 g approx.<br>(two cables)  | These cables are used for wiring. 6-core shielded cable, with connector on one end, two cables per set   |  |  |  |
| Cable with connector on one end    |            | SF4A-CC7   | SF4A-CC7  Length: 7 m 22.966 ft Net weight: 800 g approx. (two cables)  Cable outer diameter: Connector outer diameter: Cable color: Gray (for Gray with |  |  |  |  |
|                                    |            | SF4A-CC10  | Length: 10 m 32.808 ft<br>Net weight: 1,120 g approx.<br>(two cables)  | Connector color: Gray (for emitter) Black (for receiver) The min. bending radius: R30 mm 1.181 in  |  |  |  |
| Cable with connector on both ends  |            | SF4A-CCJ10 | Length: 10 m 32.808 ft<br>Net weight: 1,160 g approx.<br>(two cables)  | This cable is used for cable extension. Shielded cable, with connector on both ends, two cables per set Cable outer diameter: Ø6 mm Ø0.236 in Connector outer diameter: Ø14 mm Ø0.551 in max. Cable color: Gray (for emitter) Gray with black line (for receiver) Connector color: Gray (for emitter), Black (for receiver) The min. bending radius: R30 mm 1.181 in |  |  |  |
|                                    |            | SF4A-CSL02 | Length: 200 mm 7.874 in<br>Net weight: 70 g approx.<br>(two cables)  |  |  |  |  |
| Cable for series connection (Note) |            | SF4A-CSL05 | Length: 500 mm 19.685 in<br>Net weight: 100 g approx.<br>(two cables)  |  |  |  |  |
|                                    |            | SF4A-CSL10 | Length: 1 m 3.281 ft<br>Net weight: 160 g approx.<br>(two cables)  | Cable outer diameter: ø6 mm ø0.236 in<br>Cable color: Gray (common for emitter and receiver)<br>The min. bending radius: R30 mm 1.181 in   |  |  |  |
|                                    |            | SF4A-CSL30 | Length: 3 m 9.843 ft<br>Net weight: 380 g approx.<br>(two cables)  |  |  |  |  |

Note: Note that the dimensions of the SF4-AH series will change when using the cable for series connection (SF4A-CSL

). Contact our office for further details.

## **Handy-controller**

| Designation          | Appearance   | Model No. |  |  |  |
|----------------------|--|-----------|--|--|--|
| Handy-<br>controller | The state of the s | SF-HC     |  |  |  |

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Definition of Sensing Heights

## **ORDER GUIDE**

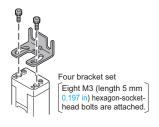
#### Spare parts (Accessories for light curtain)

| Designation Model No.                           |            | Description  |  |  |  |  |
|---|------------|--|--|--|--|--|
| Rear mounting bracket                           | MS-SF2N-1  | Used to mount the light curtain on the rear surface (1 set for emitter and receiver) |  |  |  |  |
| U-shaped rear mounting                          | MS-SF2N-2  | For <b>SF4-AH</b> □( <b>-N</b> )   | Used to hold the light curtain at the intermediate   |  |  |  |
| intermediate supporting bracket (Note)          | MS-SF4A-H2 | For <b>SF4-AH</b> □ <b>-H</b>  | position for protection against vibration (for rear surface mounting) (1 set for emitter and receiver) |  |  |  |
| L-shaped intermediate supporting bracket (Note) | MS-SF2N-L  |  | shaped intermediate supporting bracket on set for emitter and receiver)                                |  |  |  |

Note: The number of sets required varies depending on the product. Refer to "SPECIFICATIONS" on p.573 for further details.

#### Rear mounting bracket

• MS-SF2N-1

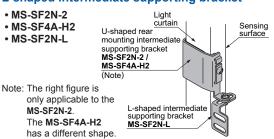


# U-shaped rear mounting intermediate supporting bracket L-shaped intermediate supporting bracket

- MS-SF2N-2
- MS-SF4A-H2

MS-SF2N-2.

• MS-SF2N-L



- MS-SF2N-2 / MS-SF4A-H2
- Set of 2 pcs. each of U-shaped rear supporting bracket and retaining plate
- MS-SF2N-L

Two L-shaped bracket set

Two M3 (length 10 mm 0.394 in) pan head screws, two M4 (length 10 mm 0.394 in) hexagon-socket-head bolts and two nuts are attached.

# **OPTIONS**

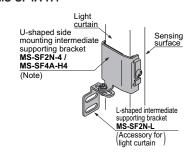
| Designation                                    | Model No.  | Description   |  |  |  |  |
|--|------------|---|--|--|--|--|
| Large display unit for light curtain           | SF-IND-2   | With the large display unit put on the light curtain, the operation is easily observable from various directions.  • Supply voltage: 24 V DC ± 15 %  • Current consumption: 12 mA or less |  |  |  |  |
| Side mounting bracket                          | MS-SF2N-3  | Used for side-mounting of light curtains (four bracket set for emitter and receiver)  |  |  |  |  |
| U-shaped side mounting intermediate supporting | MS-SF2N-4  | For <b>SF4-AH</b> □(- <b>N</b> )  | Used to hold the light curtain at the intermediate position for protection |  |  |  |
| bracket (Note 1)                               | MS-SF4A-H4 | For <b>SF4-AH</b> □- <b>H</b>   | against vibration (for side mountin (1 set for emitter and receiver)       |  |  |  |
| Center sensor<br>mounting<br>bracket (Note 2)  | MS-SF2N-5  | Used for one-point rear mounting<br>Convenient for mounting on an aluminum frame<br>(four bracket set for emitter and receiver)   |  |  |  |  |
| Laser alignment tool (Note 3)                  | SF-LAT-2N  | Easy to align the beam axis with the visible las beam   |  |  |  |  |

Notes: 1) The number of sets reguired varies depending on the product. Contact our office for further details

- 2) Multiple beam channel sensors requiring the intermediate supporting bracket (36 beam channels or more) cannot be mounted on an aluminum frame with the center sensor mounting bracket.
- 3) Refer to "SF4B series" on p.494 / p.513 for further details about the laser alignment tool.

#### U-shaped side mounting intermediate supporting bracket

- MS-SF2N-4
- MS-SF4A-H4



Note: The above figure is only applicable to the MS-SF2N-4

The MS-SF4A-H4 has a different shape.

MS-SF2N-4 / MS-SF4A-H4

Set of 2 pcs. each of U-shaped side supporting bracket and retaining plate

#### Large display unit for light curtain

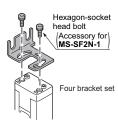
• SF-IND-2



Attaches to upper edge of light curtain. Tighten together the mounting bracket provided with the light curtain and the mounting bracket of SF-IND-2.

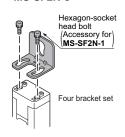
#### Side mounting bracket

• MS-SF2N-3



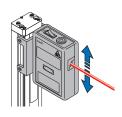
#### **Center sensor** mounting bracket

• MS-SF2N-5



#### Laser alignment tool

• SF-LAT-2N





## **OPTIONS**

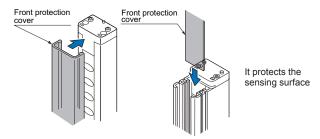
| Des                    | Applica             | able beam channels | 8 beam       | 12 beam channels |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
|------------------------|---------------------|--------------------|--------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Front protection cover | For SF4-AH::(-N)    | Model<br>No.       | FC-SF4A-H8   | FC-SF4A-H12      | FC-SF4A-H16   | FC-SF4A-H20   | FC-SF4A-H24   | FC-SF4A-H28   | FC-SF4A-H32   | FC-SF4A-H36   | FC-SF4A-H40   | FC-SF4A-H48   | FC-SF4A-H56   | FC-SF4A-H64   | FC-SF4A-H72   | FC-SF4A-H80   | FC-SF4A-H88   | FC-SF4A-H96   |
| Front prote            | For<br>SF4-AHo-H    | Model<br>No.       | FC-SF4A-H8-H | FC-SF4A-H12-H    | FC-SF4A-H16-H | FC-SF4A-H20-H | FC-SF4A-H24-H | FC-SF4A-H28-H | FC-SF4A-H32-H | FC-SF4A-H36-H | FC-SF4A-H40-H | FC-SF4A-H48-H | FC-SF4A-H56-H | FC-SF4A-H64-H | FC-SF4A-H72-H | FC-SF4A-H80-H | FC-SF4A-H88-H | FC-SF4A-H96-H |
| mask                   | For<br>SF4-AH::(-N) | Model<br>No.       | OS-SF4A-H8   | OS-SF4A-H12      | OS-SF4A-H16   | OS-SF4A-H20   | OS-SF4A-H24   | OS-SF4A-H28   | OS-SF4A-H32   | OS-SF4A-H36   | OS-SF4A-H40   | OS-SF4A-H48   | OS-SF4A-H56   | OS-SF4A-H64   | OS-SF4A-H72   | OS-SF4A-H80   | OS-SF4A-H88   | OS-SF4A-H96   |
| <b></b>                | For<br>SF4-AH=-H    | Model<br>No.       | OS-SF4A-H8-H | OS-SF4A-H12-H    | OS-SF4A-H16-H | OS-SF4A-H20-H | OS-SF4A-H24-H | OS-SF4A-H28-H | OS-SF4A-H32-H | OS-SF4A-H36-H | OS-SF4A-H40-H | OS-SF4A-H48-H | OS-SF4A-H56-H | OS-SF4A-H64-H | OS-SF4A-H72-H | OS-SF4A-H80-H | OS-SF4A-H88-H | OS-SF4A-H96-H |
| Fron                   | nt protection       | Model<br>No.       | MC-SF4AH-8   | MC-SF4AH-12      | MC-SF4AH-16   | MC-SF4AH-20   | MC-SF4AH-24   | MC-SF4AH-28   | MC-SF4AH-32   | MC-SF4AH-36   | MC-SF4AH-40   | MC-SF4AH-48   | MC-SF4AH-56   | MC-SF4AH-64   | MC-SF4AH-72   | MC-SF4AH-80   | MC-SF4AH-88   | MC-SF4AH-96   |

Note: The model Nos. given above denote a single unit, not a pair of units. 2 pcs. (2 sets) are required to mount the emitter / receiver.

#### Front protection cover

• FC-SF4A-H□

• FC-SF4A-H□-H



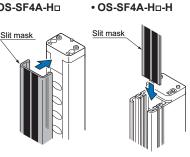
#### Operating range

#### <FC-SF4A-H / FC-SF4A-H -H>

- Front protection cover on the emitter side: 0.3 to 7 m 0.984 to 22.966 ft
- Front protection cover on the receiver side: 0.3 to 6 m 0.984 to 19.685 ft
- Front protection cover on both sides: 0.3 to 5 m 0.984 to 16.404 ft

#### Slit mask

• OS-SF4A-H□



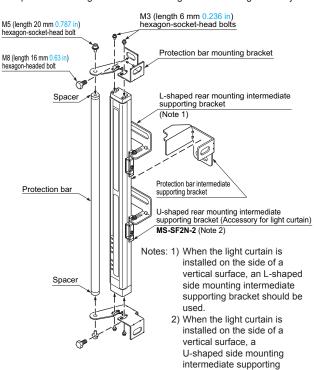
of beam emitted or received and hence reduces the interference between neighboring light curtains. However, the operating range reduces when the slit mask is used.

The slit mask restrains the amount

# Front protection unit

• MC-SF4AH-□

It protects sensing surface from damage due to striking of an object.



bracket should be used. (MS-SF2N-4) (optional) FIBER SENSORS

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# Operating range

#### <OS-SF4A-H<sub>□</sub>>

- Slit on the emitter side: 0.3 to 4 m 0.984 to 13.123 ft
- Slit on the receiver side: 0.3 to 3 m 0.984 to 9.843 ft
- Slit on both sides: 0.3 to 2 m 0.984 to 6.561 ft

#### <OS-SF4A-H□-H>

- Slit on the emitter side: 0.3 to 3 m 0.984 to 9.843 ft
- Slit on the receiver side: 0.3 to 3 m 0.984 to 9.843 ft
- Slit on both sides: 0.3 to 1.5 m 0.984 to 4.921 ft

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# SPECIFICATIONS

The CAD data in the dimensions can be downloaded from the SUNX website: http://www.sunx.com

#### **Common specifications**

| Туре                                    |                                | NPN output equivalent   | PNP output equivalent   |  |  |  |  |  |
|---|--------------------------------|---|---|--|--|--|--|--|
| Item Model No.                          |                                | SF4-AH□-N   | SF4-AH□(-H)   |  |  |  |  |  |
| Applicable standards                    |                                | EN 954-1 (Category 4), EN 61496-1 (Type 4), IEC 61496-1/2 (Type 4), UL 61496-1/2 (Type 4), UL 1998  |   |  |  |  |  |  |
| Operating range                         |                                | 0.3 to 7 m 0.984 to 22.966 ft   |   |  |  |  |  |  |
| Detection capability                    |                                | ø30 mm ø1.181 in opaque object (Note 2)   |   |  |  |  |  |  |
| Effective aperture angle                |                                | ±2.5° or less [for an operating range exceeding 3 m 9.843 ft (conforming to IEC 61496-2 / UL 61496-2)]  |   |  |  |  |  |  |
| Sup                                     | ply voltage                    | 24 V DC ± 10 % Ripple P-P 10 % or less  |   |  |  |  |  |  |
| Control outputs<br>(OSSD1, OSSD2)       |                                | Semiconductor output (NPN output equivalent) 2 outputs  • Maximum sink current: 200 mA  • Applied voltage: Same as supply voltage (between control output and 0 V)  • Residual voltage: 2 V or less (at 200 mA sink current)  | Semiconductor output (PNP output equivalent) 2 outputs  • Maximum source current: 200 mA  • Applied voltage: Same as supply voltage (between control output and +V)  • Residual voltage: 2.5 V or less (at 200 mA source current) |  |  |  |  |  |
|   | Operation mode                 | ON when all beam channels are received, OFF w (OFF also in case of any malfunction in the light of  |   |  |  |  |  |  |
| Res                                     | ponse time                     | In normal operation: OFF response 11 ms or less, ON response 70 ms or less In the blanking function set condition: OFF response 15 ms or less, ON response 70 ms or less  |   |  |  |  |  |  |
|   | Series connection              | In normal operation: OFF response 20 ms or less, ON response 70 ms or less<br>In the blanking function set condition: OFF response 20 ms or less, ON response 70 ms or less   |   |  |  |  |  |  |
| Auxiliary output<br>(Non-safety output) |                                | NPN open-collector transistor  • Maximum sink current: 60 mA  • Applied voltage: Same as supply voltage (between auxiliary output and 0 V)  • Residual voltage: 2 V or less (at 60 mA sink current)   | PNP open-collector transistor   |  |  |  |  |  |
|   | Operation mode                 | OFF when control outputs are ON, ON when control outputs are OFF (It is possible to use the handy-controller to switch the mode to ON when control outputs are ON and OFF when control outputs are OFF.)  |   |  |  |  |  |  |
| Inter                                   | rference prevention function   | Incorporated (In cace of series connection: 3 sets max., Max. beam channels 192 beam channels)  |   |  |  |  |  |  |
| Test                                    | input (emission halt) function | Incorporated  |   |  |  |  |  |  |
| Test input (emission halt input)        |                                | Emission: 0 to +1.5 V (source current: 2 mA or less) Emission halt: Open, or +9 V to Vs (Note 3)  Emission: +9 V to Vs (sink current: 2 mA or less) Emission halt: Open, or 0 to +1.5 V   |   |  |  |  |  |  |
| Deg                                     | ree of protection              | IP65 (IEC), (Refer to p.984 for details of standards)   |   |  |  |  |  |  |
| Ambient temperature                     |                                | -10 to +55 °C +14 to +131 °F (No dew condensation or icing allowed), Storage: -25 to +70 °C -13 to +158 °F  |   |  |  |  |  |  |
| Emitting element                        |                                | Infrared LED (Peak emission wavelength: 870 nm 0.034 mil)   |   |  |  |  |  |  |
| Material                                |                                | Enclosure: Aluminium, Front case: Polycarbonate, Lens: Polycarbonate, Cap: Polycarbonate and ABS  |   |  |  |  |  |  |
| Dimensions                              |                                | W28 × H (protective height + 27) × D21 mm<br>W1.102 × H (protective height + 1.063) × D0.827 in  W28 × H (protective height + 27) × D21 mm (SF4-AH□-H: D4<br>W1.102 × H (protective height + 1.063) × D0.827 in (SF4-AH□-H: D1.   |   |  |  |  |  |  |
| Accessories                             |                                | MS-SF2N-1 (Rear sensor mounting bracket): 1 set for emitter and receiver MS-SF2N-2 (U-shaped rear mounting intermediate supporting bracket, MS-SF4A-H2 for "-H" type): (Note 4) MS-SF2N-L (L-shaped intermediate supporting bracket): (Note 4), SF4-AH-TR (Test rod): 1 pc. |   |  |  |  |  |  |

Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +20 °C +68 °F.

- 2) In this light curtain, the floating blanking function can be set by using the Handy-controller (SF-HC)(optional). When the floating blanking function is used, the size of the min. sensing object is changed. For details on the floating blanking function, refer to SF4B series on p.484 / p.506.
- 3) Vs is the same value as the voltage of the used power supply to be used.
- 4) MS-SF2N-2 / MS-SF4A-H2 (U-shaped rear mounting intermediate supporting bracket) and MS-SF2N-L (L-shaped intermediate supporting bracket) are attached with the following light curtains.

The number of attached U-shaped rear mounting intermediate supporting bracket and L-shaped intermediate supporting bracket are different depending on the light curtain as follows.

SF4-AH36(-N/H), SF4-AH40(-N/H): 1 set, SF4-AH48(-N/H): 2 sets, SF4-AH56(-N/H), SF4-AH64(-N/H), SF4-AH72(-N/H): 3 sets SF4-AH80(-N/H): 4 sets, SF4-AH88(-N/H), SF4-AH96(-N/H): 5 sets

## PRECAUTIONS FOR PROPER USE

Refer to p.986~ for general precautions.



- Do not utilize this light curtain in "PSDI Mode", in which the light curtain is utilized as an activator for machinery.
- To use this product in the U.S.A., refer to OSHA 1910. 212 and OSHA 1910. 217 for installation, and in Europe, refer to EN 999 as well. Observe your national and local requirements before installing this product.
- This catalog is a guide to select a suitable product. Be sure to read the instruction manual attached to the product prior to its use.

