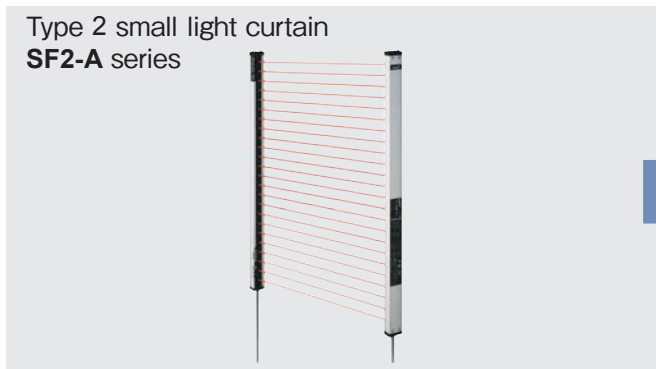


Information of Discontinued Models

Type 2 Small Light Curtain SF2-A series

Discontinued models

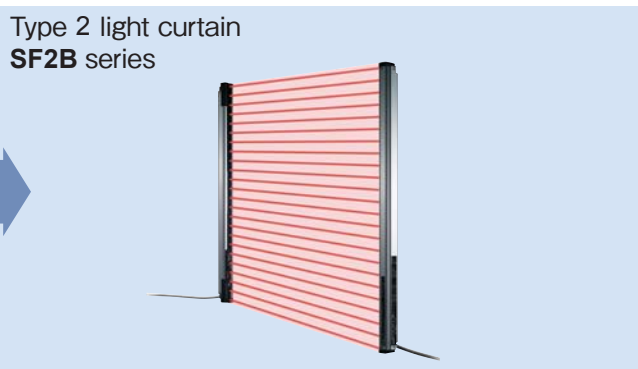


* Check in the tables in

Main points of difference between recommended replacements and discontinued models for details on model numbers for each type.

Order cut-off date : 30 Sep 2009
Date of product discontinuance : 31 Dec 2009

Recommended replacements



Refer to 'SUNX general catalog' or SUNX website (sunx.com) for details.

Advantages of switching to recommended replacements

Series connection of up to 3 sets is possible

Light curtains can be connected up to 3 sets (up to a maximum of 128 beam channels) in series by using the sub-sensors (optional) for series connection. (However, the **SF2B-H8-□** and **SF2B-A4-□** cannot be connected in series.)

Adapter cables and adapter mounting brackets (optional) available for use

Adapter cables and adapter mounting brackets are available to replace **SF2-A** series with **SF2B** series so that mounting holes and mating cables from **SF2-A** series can remain to be used.

Selectable safety circuits

The light curtain unit has a built-in monitoring function for external devices (such as fused relay monitoring). This supports the construction of light curtain peripheral safety circuits, which do not use a safety relay unit, and contributes to reduced costs and a more compact control panel. In addition, a connectable control unit **SF-C11** (optional) is used, so that a safety circuit that is easy to construct and install can be selected.

'ZERO' dead zone. Unit length = sensing height, mounting with no dead zone

The sensing area contains no dead spaces. Even with series connections, there are no dangerous openings at the interfaces between light curtains. This makes simpler and more compact installation possible.

Error details understood at a glance by a digital error indicator

The system constantly checks the light curtain for problems such as incorrect cable wiring, disconnection, short-circuits, internal circuit problems and incoming light problems. If a problem should occur, details of the error appear on the digital display. In case of problem occurrence or at time of maintenance, smooth support is available even via the telephone.

Seamless structure with reduced seam area prevents intrusion of oil mists and dust particles

The inner unit is protected by a cylindrical inner case. Seams such as unit and lens surfaces have been greatly reduced, so that particles such as oil mists and dust are prevented from getting in. [Protection=IP65(IEC)]

Notes on using recommended replacements

Recommended replacements	Sensing performance	Specifications	Output circuit	Mounting dimensions	Dimensions	Case color
SF2B series	◎	◎	◎	※ [O (Note 1)]	※	○

◎ : Highly interchangeable
※ : Large differences

○ : Almost no difference
— : No corresponding item or model

- Differences in sensing characteristics, shapes and installation procedure.
- Mounting brackets and mating cables (bottom cap cable) are not supplied with the light curtain. Be sure to order them separately.

Note: 1) Adapter cables and adapter mounting brackets needed in replacing from **SF2-A** series are for sale separately.

* Different from the regular bottom cap cables and mounting brackets.

Information of Discontinued Models

Type 2 Small Light Curtain SF2-A series

Main points of difference between recommended replacements and discontinued models

Discontinued models			Recommended replacements			Main points of difference from discontinued models
● Type 2 small light curtain, normal case type			● Type 2 light curtain (Note 1)			
Model No.	Number of beam channels	Protective height	Model No.	Number of beam channels	Protective height (Note 2)	
SF2-AH8	8	190 mm 7.480 in	→ SF2B-H8-N	8	168 mm 6.614 in	● Difference in protective heights. Notes: 1) SF2B series does not come with a spatter protection case. The optional front protection cover FC-SF2BH-□ (material: polycarbonate) protects the sensing surfaces of the light curtain from flying objects such as welding spatter, oil and water. However, the sensing range reduces when the front protection cover is used. Please refer to 'SUNX general catalog' or SUNX website (sunx.com) for details. 2) Because the recommended replacements have a dead-zoneless structure, unit with the same number of beam channels is shorter than the discontinued model. Note that the protective height is also shorter as the same reason applies. Meanwhile, beam pitch is the same.
SF2-AH12	12	270 mm 10.630 in	→ SF2B-H12-N	12	232 mm 9.134 in	
SF2-AH16	16	350 mm 13.780 in	→ SF2B-H16-N	16	312 mm 12.283 in	
SF2-AH20	20	430 mm 16.929 in	→ SF2B-H20-N	20	392 mm 15.433 in	
SF2-AH24	24	510 mm 20.079 in	→ SF2B-H24-N	24	472 mm 18.583 in	
SF2-AH28	28	590 mm 23.228 in	→ SF2B-H28-N	28	552 mm 21.732 in	
SF2-AH32	32	670 mm 26.378 in	→ SF2B-H32-N	32	632 mm 24.882 in	
SF2-AH36	36	750 mm 29.528 in	→ SF2B-H36-N	36	712 mm 28.031 in	
SF2-AH40	40	830 mm 32.677 in	→ SF2B-H40-N	40	792 mm 31.181 in	
SF2-AH48	48	990 mm 38.976 in	→ SF2B-H48-N	48	952 mm 37.480 in	
SF2-AH56	56	1,150 mm 45.276 in	→ SF2B-H56-N	56	1,112 mm 43.779 in	
SF2-AH64	64	1,310 mm 51.575 in	→ SF2B-H64-N	64	1,272 mm 50.079 in	
SF2-AH72	72	1,470 mm 57.874 in	→ SF2B-H72-N	72	1,432 mm 56.378 in	
SF2-AH80	80	1,630 mm 64.173 in	→ SF2B-H80-N	80	1,592 mm 62.677 in	
SF2-AH88	88	1,790 mm 70.472 in	→ SF2B-H88-N	88	1,752 mm 68.976 in	
SF2-AH96	96	1,950 mm 76.772 in	→ SF2B-H96-N	96	1,912 mm 75.275 in	
SF2-AH8-PN	8	190 mm 7.480 in	→ SF2B-H8-P	8	168 mm 6.614 in	
SF2-AH12-PN	12	270 mm 10.630 in	→ SF2B-H12-P	12	232 mm 9.134 in	
SF2-AH16-PN	16	350 mm 13.780 in	→ SF2B-H16-P	16	312 mm 12.283 in	
SF2-AH20-PN	20	430 mm 16.929 in	→ SF2B-H20-P	20	392 mm 15.433 in	
SF2-AH24-PN	24	510 mm 20.079 in	→ SF2B-H24-P	24	472 mm 18.583 in	
SF2-AH28-PN	28	590 mm 23.228 in	→ SF2B-H28-P	28	552 mm 21.732 in	
SF2-AH32-PN	32	670 mm 26.378 in	→ SF2B-H32-P	32	632 mm 24.882 in	
SF2-AH36-PN	36	750 mm 29.528 in	→ SF2B-H36-P	36	712 mm 28.031 in	
SF2-AH40-PN	40	830 mm 32.677 in	→ SF2B-H40-P	40	792 mm 31.181 in	
SF2-AH48-PN	48	990 mm 38.976 in	→ SF2B-H48-P	48	952 mm 37.480 in	
SF2-AH56-PN	56	1,150 mm 45.276 in	→ SF2B-H56-P	56	1,112 mm 43.779 in	
SF2-AH64-PN	64	1,310 mm 51.575 in	→ SF2B-H64-P	64	1,272 mm 50.079 in	
SF2-AH72-PN	72	1,470 mm 57.874 in	→ SF2B-H72-P	72	1,432 mm 56.378 in	
SF2-AH80-PN	80	1,630 mm 64.173 in	→ SF2B-H80-P	80	1,592 mm 62.677 in	
SF2-AH88-PN	88	1,790 mm 70.472 in	→ SF2B-H88-P	88	1,752 mm 68.976 in	
SF2-AH96-PN	96	1,950 mm 76.772 in	→ SF2B-H96-P	96	1,912 mm 75.275 in	
SF2-AA4	4	190 mm 7.480 in	→ SF2B-A4-N	4	168 mm 6.614 in	
SF2-AA6	6	270 mm 10.630 in	→ SF2B-A6-N	6	232 mm 9.134 in	
SF2-AA8	8	350 mm 13.780 in	→ SF2B-A8-N	8	312 mm 12.283 in	
SF2-AA10	10	430 mm 16.929 in	→ SF2B-A10-N	10	392 mm 15.433 in	
SF2-AA12	12	510 mm 20.079 in	→ SF2B-A12-N	12	472 mm 18.583 in	
SF2-AA14	14	590 mm 23.228 in	→ SF2B-A14-N	14	552 mm 21.732 in	
SF2-AA16	16	670 mm 26.378 in	→ SF2B-A16-N	16	632 mm 24.882 in	
SF2-AA18	18	750 mm 29.528 in	→ SF2B-A18-N	18	712 mm 28.031 in	
SF2-AA20	20	830 mm 32.677 in	→ SF2B-A20-N	20	792 mm 31.181 in	
SF2-AA24	24	990 mm 38.976 in	→ SF2B-A24-N	24	952 mm 37.480 in	
SF2-AA28	28	1,150 mm 45.276 in	→ SF2B-A28-N	28	1,112 mm 43.779 in	
SF2-AA32	32	1,310 mm 51.575 in	→ SF2B-A32-N	32	1,272 mm 50.079 in	
SF2-AA36	36	1,470 mm 57.874 in	→ SF2B-A36-N	36	1,432 mm 56.378 in	
SF2-AA40	40	1,630 mm 64.173 in	→ SF2B-A40-N	40	1,592 mm 62.677 in	
SF2-AA44	44	1,790 mm 70.472 in	→ SF2B-A44-N	44	1,752 mm 68.976 in	
SF2-AA48	48	1,950 mm 76.772 in	→ SF2B-A48-N	48	1,912 mm 75.275 in	
SF2-AA4-PN	4	190 mm 7.480 in	→ SF2B-A4-P	4	168 mm 6.614 in	
SF2-AA6-PN	6	270 mm 10.630 in	→ SF2B-A6-P	6	232 mm 9.134 in	
SF2-AA8-PN	8	350 mm 13.780 in	→ SF2B-A8-P	8	312 mm 12.283 in	
SF2-AA10-PN	10	430 mm 16.929 in	→ SF2B-A10-P	10	392 mm 15.433 in	
SF2-AA12-PN	12	510 mm 20.079 in	→ SF2B-A12-P	12	472 mm 18.583 in	
SF2-AA14-PN	14	590 mm 23.228 in	→ SF2B-A14-P	14	552 mm 21.732 in	
SF2-AA16-PN	16	670 mm 26.378 in	→ SF2B-A16-P	16	632 mm 24.882 in	
SF2-AA18-PN	18	750 mm 29.528 in	→ SF2B-A18-P	18	712 mm 28.031 in	
SF2-AA20-PN	20	830 mm 32.677 in	→ SF2B-A20-P	20	792 mm 31.181 in	
SF2-AA24-PN	24	990 mm 38.976 in	→ SF2B-A24-P	24	952 mm 37.480 in	
SF2-AA28-PN	28	1,150 mm 45.276 in	→ SF2B-A28-P	28	1,112 mm 43.779 in	

Information of Discontinued Models

Discontinued models			Recommended replacements			Main points of difference from discontinued models
● Type 2 small light curtain, normal case type			● Type 2 light curtain (Note 1)			
Model No.	Number of beam channels	Protective height	Model No.	Number of beam channels	Protective height (Note 2)	
SF2-AA32-PN	32	1,310 mm 51.575 in	SF2B-A32-P	32	1,272 mm 50.079 in	
SF2-AA36-PN	36	1,470 mm 57.874 in	SF2B-A36-P	36	1,432 mm 56.378 in	
SF2-AA40-PN	40	1,630 mm 64.173 in	SF2B-A40-P	40	1,592 mm 62.677 in	
SF2-AA44-PN	44	1,790 mm 70.472 in	SF2B-A44-P	44	1,752 mm 68.976 in	
SF2-AA48-PN	48	1,950 mm 76.772 in	SF2B-A48-P	48	1,912 mm 75.275 in	
● Type 2 small light curtain, spatter protection hood type			● Type 2 light curtain (Note 1)			
Model No.	Number of beam channels	Protective height	Model No.	Number of beam channels	Protective height (Note 2)	
SF2-AH8-H	8	190 mm 7.480 in	SF2B-H8-N	8	168 mm 6.614 in	● Difference in protective heights.
SF2-AH12-H	12	270 mm 10.630 in	SF2B-H12-N	12	232 mm 9.134 in	Notes: 1) SF2B series does not come with a spatter protection case. The optional front protection cover FC-SF2BH-□ (material: polycarbonate) protects the sensing surfaces of the light curtain from flying objects such as welding spatter, oil and water. However, the sensing range reduces when the front protection cover is used. Please refer to 'SUNX general catalog' or SUNX website (sunx.com) for details.
SF2-AH16-H	16	350 mm 13.780 in	SF2B-H16-N	16	312 mm 12.283 in	2) Because the recommended replacements have a dead-zoneless structure, unit with the same number of beam channels is shorter than the discontinued model. Note that the protective height is also shorter as the same reason applies. Meanwhile, beam pitch is the same.
SF2-AH20-H	20	430 mm 16.929 in	SF2B-H20-N	20	392 mm 15.433 in	
SF2-AH24-H	24	510 mm 20.079 in	SF2B-H24-N	24	472 mm 18.583 in	
SF2-AH28-H	28	590 mm 23.228 in	SF2B-H28-N	28	552 mm 21.732 in	
SF2-AH32-H	32	670 mm 26.378 in	SF2B-H32-N	32	632 mm 24.882 in	
SF2-AH36-H	36	750 mm 29.528 in	SF2B-H36-N	36	712 mm 28.031 in	
SF2-AH40-H	40	830 mm 32.677 in	SF2B-H40-N	40	792 mm 31.181 in	
SF2-AH48-H	48	990 mm 38.976 in	SF2B-H48-N	48	952 mm 37.480 in	
SF2-AH56-H	56	1,150 mm 45.276 in	SF2B-H56-N	56	1,112 mm 43.779 in	
SF2-AH64-H	64	1,310 mm 51.575 in	SF2B-H64-N	64	1,272 mm 50.079 in	
SF2-AH72-H	72	1,470 mm 57.874 in	SF2B-H72-N	72	1,432 mm 56.378 in	
SF2-AH80-H	80	1,630 mm 64.173 in	SF2B-H80-N	80	1,592 mm 62.677 in	
SF2-AH88-H	88	1,790 mm 70.472 in	SF2B-H88-N	88	1,752 mm 68.976 in	
SF2-AH96-H	96	1,950 mm 76.772 in	SF2B-H96-N	96	1,912 mm 75.275 in	
SF2-AH8-PN-H	8	190 mm 7.480 in	SF2B-H8-P	8	168 mm 6.614 in	
SF2-AH12-PN-H	12	270 mm 10.630 in	SF2B-H12-P	12	232 mm 9.134 in	
SF2-AH16-PN-H	16	350 mm 13.780 in	SF2B-H16-P	16	312 mm 12.283 in	
SF2-AH20-PN-H	20	430 mm 16.929 in	SF2B-H20-P	20	392 mm 15.433 in	
SF2-AH24-PN-H	24	510 mm 20.079 in	SF2B-H24-P	24	472 mm 18.583 in	
SF2-AH28-PN-H	28	590 mm 23.228 in	SF2B-H28-P	28	552 mm 21.732 in	
SF2-AH32-PN-H	32	670 mm 26.378 in	SF2B-H32-P	32	632 mm 24.882 in	
SF2-AH36-PN-H	36	750 mm 29.528 in	SF2B-H36-P	36	712 mm 28.031 in	
SF2-AH40-PN-H	40	830 mm 32.677 in	SF2B-H40-P	40	792 mm 31.181 in	
SF2-AH48-PN-H	48	990 mm 38.976 in	SF2B-H48-P	48	952 mm 37.480 in	
SF2-AH56-PN-H	56	1,150 mm 45.276 in	SF2B-H56-P	56	1,112 mm 43.779 in	
SF2-AH64-PN-H	64	1,310 mm 51.575 in	SF2B-H64-P	64	1,272 mm 50.079 in	
SF2-AH72-PN-H	72	1,470 mm 57.874 in	SF2B-H72-P	72	1,432 mm 56.378 in	
SF2-AH80-PN-H	80	1,630 mm 64.173 in	SF2B-H80-P	80	1,592 mm 62.677 in	
SF2-AH88-PN-H	88	1,790 mm 70.472 in	SF2B-H88-P	88	1,752 mm 68.976 in	
SF2-AH96-PN-H	96	1,950 mm 76.772 in	SF2B-H96-P	96	1,912 mm 75.275 in	
SF2-AA4-H	4	190 mm 7.480 in	SF2B-A4-N	4	168 mm 6.614 in	
SF2-AA6-H	6	270 mm 10.630 in	SF2B-A6-N	6	232 mm 9.134 in	
SF2-AA8-H	8	350 mm 13.780 in	SF2B-A8-N	8	312 mm 12.283 in	
SF2-AA10-H	10	430 mm 16.929 in	SF2B-A10-N	10	392 mm 15.433 in	
SF2-AA12-H	12	510 mm 20.079 in	SF2B-A12-N	12	472 mm 18.583 in	
SF2-AA14-H	14	590 mm 23.228 in	SF2B-A14-N	14	552 mm 21.732 in	
SF2-AA16-H	16	670 mm 26.378 in	SF2B-A16-N	16	632 mm 24.882 in	
SF2-AA18-H	18	750 mm 29.528 in	SF2B-A18-N	18	712 mm 28.031 in	
SF2-AA20-H	20	830 mm 32.677 in	SF2B-A20-N	20	792 mm 31.181 in	
SF2-AA24-H	24	990 mm 38.976 in	SF2B-A24-N	24	952 mm 37.480 in	
SF2-AA28-H	28	1,150 mm 45.276 in	SF2B-A28-N	28	1,112 mm 43.779 in	
SF2-AA32-H	32	1,310 mm 51.575 in	SF2B-A32-N	32	1,272 mm 50.079 in	
SF2-AA36-H	36	1,470 mm 57.874 in	SF2B-A36-N	36	1,432 mm 56.378 in	
SF2-AA40-H	40	1,630 mm 64.173 in	SF2B-A40-N	40	1,592 mm 62.677 in	
SF2-AA44-H	44	1,790 mm 70.472 in	SF2B-A44-N	44	1,752 mm 68.976 in	
SF2-AA48-H	48	1,950 mm 76.772 in	SF2B-A48-N	48	1,912 mm 75.275 in	
SF2-AA4-PN-H	4	190 mm 7.480 in	SF2B-A4-P	4	168 mm 6.614 in	
SF2-AA6-PN-H	6	270 mm 10.630 in	SF2B-A6-P	6	232 mm 9.134 in	
SF2-AA8-PN-H	8	350 mm 13.780 in	SF2B-A8-P	8	312 mm 12.283 in	
SF2-AA10-PN-H	10	430 mm 16.929 in	SF2B-A10-P	10	392 mm 15.433 in	
SF2-AA12-PN-H	12	510 mm 20.079 in	SF2B-A12-P	12	472 mm 18.583 in	

Information of Discontinued Models

Discontinued models			Recommended replacements			Main points of difference from discontinued models
● Type 2 small light curtain, normal case type			● Type 2 light curtain (Note 1)			<ul style="list-style-type: none"> ● Difference in protective heights. <p>Notes: 1) SF2B series does not come with a spatter protection case. The optional front protection cover FC-SF2BH-□ (material: polycarbonate) protects the sensing surfaces of the light curtain from flying objects such as welding spatter, oil and water. However, the sensing range reduces when the front protection cover is used.</p> <p>Please refer to 'SUNX general catalog' or SUNX website (sunx.com) for details.</p> <p>2) Because the recommended replacements have a dead-zoneless structure, unit with the same number of beam channels is shorter than the discontinued model. Note that the protective height is also shorter as the same reason applies.</p> <p>Meanwhile, beam pitch is the same.</p>
Model No.	Number of beam channels	Protective height	Model No.	Number of beam channels	Protective height (Note 2)	
SF2-AA14-PN-H	14	590 mm 23.228 in	SF2B-A14-P	14	552 mm 21.732 in	
SF2-AA16-PN-H	16	670 mm 26.378 in	SF2B-A16-P	16	632 mm 24.882 in	
SF2-AA18-PN-H	18	750 mm 29.528 in	SF2B-A18-P	18	712 mm 28.031 in	
SF2-AA20-PN-H	20	830 mm 32.677 in	SF2B-A20-P	20	792 mm 31.181 in	
SF2-AA24-PN-H	24	990 mm 38.976 in	SF2B-A24-P	24	952 mm 37.480 in	
SF2-AA28-PN-H	28	1,150 mm 45.276 in	SF2B-A28-P	28	1,112 mm 43.779 in	
SF2-AA32-PN-H	32	1,310 mm 51.575 in	SF2B-A32-P	32	1,272 mm 50.079 in	
SF2-AA36-PN-H	36	1,470 mm 57.874 in	SF2B-A36-P	36	1,432 mm 56.378 in	
SF2-AA40-PN-H	40	1,630 mm 64.173 in	SF2B-A40-P	40	1,592 mm 62.677 in	
SF2-AA44-PN-H	44	1,790 mm 70.472 in	SF2B-A44-P	44	1,752 mm 68.976 in	
SF2-AA48-PN-H	48	1,950 mm 76.772 in	SF2B-A48-P	48	1,912 mm 75.275 in	
● Type 2 small light curtain, sturdy case type			● Type 2 light curtain			<ul style="list-style-type: none"> ● Difference in protective heights. <p>Note: Because the recommended replacements have a dead-zoneless structure, unit with the same number of beam channels is shorter than the discontinued model. Note that the protective height is also shorter as the same reason applies.</p> <p>Meanwhile, beam pitch is the same.</p>
Model No.	Number of beam channels	Protective height	Model No.	Number of beam channels	Protective height (Note)	
SF2-AH8-H2	8	190 mm 7.480 in	SF2B-H8-N	8	168 mm 6.614 in	
SF2-AH12-H2	12	270 mm 10.630 in	SF2B-H12-N	12	232 mm 9.134 in	
SF2-AH16-H2	16	350 mm 13.780 in	SF2B-H16-N	16	312 mm 12.283 in	
SF2-AH20-H2	20	430 mm 16.929 in	SF2B-H20-N	20	392 mm 15.433 in	
SF2-AH24-H2	24	510 mm 20.079 in	SF2B-H24-N	24	472 mm 18.583 in	
SF2-AH28-H2	28	590 mm 23.228 in	SF2B-H28-N	28	552 mm 21.732 in	
SF2-AH32-H2	32	670 mm 26.378 in	SF2B-H32-N	32	632 mm 24.882 in	
SF2-AH36-H2	36	750 mm 29.528 in	SF2B-H36-N	36	712 mm 28.031 in	
SF2-AH40-H2	40	830 mm 32.677 in	SF2B-H40-N	40	792 mm 31.181 in	
SF2-AH48-H2	48	990 mm 38.976 in	SF2B-H48-N	48	952 mm 37.480 in	
SF2-AH56-H2	56	1,150 mm 45.276 in	SF2B-H56-N	56	1,112 mm 43.779 in	
SF2-AH64-H2	64	1,310 mm 51.575 in	SF2B-H64-N	64	1,272 mm 50.079 in	
SF2-AH72-H2	72	1,470 mm 57.874 in	SF2B-H72-N	72	1,432 mm 56.378 in	
SF2-AH80-H2	80	1,630 mm 64.173 in	SF2B-H80-N	80	1,592 mm 62.677 in	
SF2-AH88-H2	88	1,790 mm 70.472 in	SF2B-H88-N	88	1,752 mm 68.976 in	
SF2-AH96-H2	96	1,950 mm 76.772 in	SF2B-H96-N	96	1,912 mm 75.275 in	
SF2-AH8-PN-H2	8	190 mm 7.480 in	SF2B-H8-P	8	168 mm 6.614 in	
SF2-AH12-PN-H2	12	270 mm 10.630 in	SF2B-H12-P	12	232 mm 9.134 in	
SF2-AH16-PN-H2	16	350 mm 13.780 in	SF2B-H16-P	16	312 mm 12.283 in	
SF2-AH20-PN-H2	20	430 mm 16.929 in	SF2B-H20-P	20	392 mm 15.433 in	
SF2-AH24-PN-H2	24	510 mm 20.079 in	SF2B-H24-P	24	472 mm 18.583 in	
SF2-AH28-PN-H2	28	590 mm 23.228 in	SF2B-H28-P	28	552 mm 21.732 in	
SF2-AH32-PN-H2	32	670 mm 26.378 in	SF2B-H32-P	32	632 mm 24.882 in	
SF2-AH36-PN-H2	36	750 mm 29.528 in	SF2B-H36-P	36	712 mm 28.031 in	
SF2-AH40-PN-H2	40	830 mm 32.677 in	SF2B-H40-P	40	792 mm 31.181 in	
SF2-AH48-PN-H2	48	990 mm 38.976 in	SF2B-H48-P	48	952 mm 37.480 in	
SF2-AH56-PN-H2	56	1,150 mm 45.276 in	SF2B-H56-P	56	1,112 mm 43.779 in	
SF2-AH64-PN-H2	64	1,310 mm 51.575 in	SF2B-H64-P	64	1,272 mm 50.079 in	
SF2-AH72-PN-H2	72	1,470 mm 57.874 in	SF2B-H72-P	72	1,432 mm 56.378 in	
SF2-AH80-PN-H2	80	1,630 mm 64.173 in	SF2B-H80-P	80	1,592 mm 62.677 in	
SF2-AH88-PN-H2	88	1,790 mm 70.472 in	SF2B-H88-P	88	1,752 mm 68.976 in	
SF2-AH96-PN-H2	96	1,950 mm 76.772 in	SF2B-H96-P	96	1,912 mm 75.275 in	
SF2-AA4-H2	4	190 mm 7.480 in	SF2B-A4-N	4	168 mm 6.614 in	
SF2-AA6-H2	6	270 mm 10.630 in	SF2B-A6-N	6	232 mm 9.134 in	
SF2-AA8-H2	8	350 mm 13.780 in	SF2B-A8-N	8	312 mm 12.283 in	
SF2-AA10-H2	10	430 mm 16.929 in	SF2B-A10-N	10	392 mm 15.433 in	
SF2-AA12-H2	12	510 mm 20.079 in	SF2B-A12-N	12	472 mm 18.583 in	
SF2-AA14-H2	14	590 mm 23.228 in	SF2B-A14-N	14	552 mm 21.732 in	
SF2-AA16-H2	16	670 mm 26.378 in	SF2B-A16-N	16	632 mm 24.882 in	
SF2-AA18-H2	18	750 mm 29.528 in	SF2B-A18-N	18	712 mm 28.031 in	
SF2-AA20-H2	20	830 mm 32.677 in	SF2B-A20-N	20	792 mm 31.181 in	
SF2-AA24-H2	24	990 mm 38.976 in	SF2B-A24-N	24	952 mm 37.480 in	

Information of Discontinued Models

Discontinued models Recommended replacements Main points of difference from discontinued models

● Type 2 small light curtain, sturdy case type

Model No.	Number of beam channels	Protective height
SF2-AA28-H2	28	1,150 mm 45.276 in
SF2-AA32-H2	32	1,310 mm 51.575 in
SF2-AA36-H2	36	1,470 mm 57.874 in
SF2-AA40-H2	40	1,630 mm 64.173 in
SF2-AA44-H2	44	1,790 mm 70.472 in
SF2-AA48-H2	48	1,950 mm 76.772 in
SF2-AA4-PN-H2	4	190 mm 7.480 in
SF2-AA6-PN-H2	6	270 mm 10.630 in
SF2-AA8-PN-H2	8	350 mm 13.780 in
SF2-AA10-PN-H2	10	430 mm 16.929 in
SF2-AA12-PN-H2	12	510 mm 20.079 in
SF2-AA14-PN-H2	14	590 mm 23.228 in
SF2-AA16-PN-H2	16	670 mm 26.378 in
SF2-AA18-PN-H2	18	750 mm 29.528 in
SF2-AA20-PN-H2	20	830 mm 32.677 in
SF2-AA24-PN-H2	24	990 mm 38.976 in
SF2-AA28-PN-H2	28	1,150 mm 45.276 in
SF2-AA32-PN-H2	32	1,310 mm 51.575 in
SF2-AA36-PN-H2	36	1,470 mm 57.874 in
SF2-AA40-PN-H2	40	1,630 mm 64.173 in
SF2-AA44-PN-H2	44	1,790 mm 70.472 in
SF2-AA48-PN-H2	48	1,950 mm 76.772 in

● Type 2 light curtain

Model No.	Number of beam channels	Protective height (Note)
SF2B-A28-N	28	1,112 mm 43.779 in
SF2B-A32-N	32	1,272 mm 50.079 in
SF2B-A36-N	36	1,432 mm 56.378 in
SF2B-A40-N	40	1,592 mm 62.677 in
SF2B-A44-N	44	1,752 mm 68.976 in
SF2B-A48-N	48	1,912 mm 75.275 in
SF2B-A4-P	4	168 mm 6.614 in
SF2B-A6-P	6	232 mm 9.134 in
SF2B-A8-P	8	312 mm 12.283 in
SF2B-A10-P	10	392 mm 15.433 in
SF2B-A12-P	12	472 mm 18.583 in
SF2B-A14-P	14	552 mm 21.732 in
SF2B-A16-P	16	632 mm 24.882 in
SF2B-A18-P	18	712 mm 28.031 in
SF2B-A20-P	20	792 mm 31.181 in
SF2B-A24-P	24	952 mm 37.480 in
SF2B-A28-P	28	1,112 mm 43.779 in
SF2B-A32-P	32	1,272 mm 50.079 in
SF2B-A36-P	36	1,432 mm 56.378 in
SF2B-A40-P	40	1,592 mm 62.677 in
SF2B-A44-P	44	1,752 mm 68.976 in
SF2B-A48-P	48	1,912 mm 75.275 in

- Difference in protective heights.

Note: Because the recommended replacements have a dead-zoneless structure, unit with the same number of beam channels is shorter than the discontinued model. Note that the protective height is also shorter as the same reason applies. Meanwhile, beam pitch is the same.

● Mating cable for SF2-A

Model No.	Type	Cable length
SF2N-CC3	Connector on one end	3 m 9.843 ft
SF2N-CC7	Connector on one end	7 m 22.966 ft
SF2N-CC10	Connector on one end	10 m 32.808 ft
SF2N-CCJ10	Connector on both ends	10 m 32.808 ft

● Mating cable for SF2B

Model No.	Type	Cable length
SF2B-CCB3 (Note 1)	Connector on one end	3 m 9.843 ft
SF2B-CCB7 (Note 1)	Connector on one end	7 m 22.966 ft
SF2B-CCB10 (Note 1)	Connector on one end	10 m 32.808 ft
SFB-CCJ10E (Note 2)	Connector on both ends	10 m 32.808 ft
SFB-CCJ10D (Note 2)	Connector on both ends	10 m 32.808 ft

- Mating cable is not supplied with the light curtain. Be sure to order it separately. However, if the adapter cable (bottom cap cable) for SF2-A is used, mating cable is not needed.

Notes: 1) Used for connecting to the light curtain and to other cables or the SF-C13 control unit.
2) Recommended replacements have different model no. for emitter and receiver.

● Test rod for SF2-A

Model No.	Type
SF2-NH-TR	20 mm 0.787 in beam pitch (spare parts)
SF2-NA-TR	40 mm 1.575 in beam pitch (optional)

● Test rod for SF2B

Model No.	Type
SF2B-TR27	20 mm 0.787 in beam pitch (spare parts)
SF2B-TR47	40 mm 1.575 in beam pitch (optional)

● Mounting bracket (for SF2-A□-H2)

Model No.	Type
MS-SF2A-H1	Front adjust rear mounting bracket (spare parts)
MS-SF2A-H2	U-shaped rear mounting intermediate supporting bracket (optional)

● Mounting bracket for SF2B

Model No.	Type
MS-SF2B-1	Standard mounting bracket (optional)
MS-SF2B-2	Intermediate supporting bracket (spare parts)

* When replacing from SF2-A series using the same mounting holes and mating cable

● Adapter mounting brackets for SF2-A (optional)

Model No.	Type
MS-SF2B-5	Rear and side surface use

- Used when replacing from SF2-A series: 4 pcs. per set for emitter and receiver. Hexagon-socket-head bolt attached.

● Adapter cable (bottom cap cable) for SF2-A (optional)

Model No.	Cable length
SF2B-CB05-A	0.5 m 1.640 ft

- Used when replacing from SF2-A series: 2 cables per set for emitter and receiver. Cable outer diameter: $\phi 6$ mm $\phi 0.236$ in. Cable color: gray (for emitter), gray with black line (for receiver). Connector color: gray (for emitter), black (for receiver).
- NPN output type: connect shield wire to +V.
- PNP output type: connect shield wire to 0 V.
- Existing mating cable SF2N-CC□ (optional) can be used as is.

Information of Discontinued Models

Type 2 Small Light Curtain SF2-A series

Dimensions (Unit: mm in)

Discontinued models

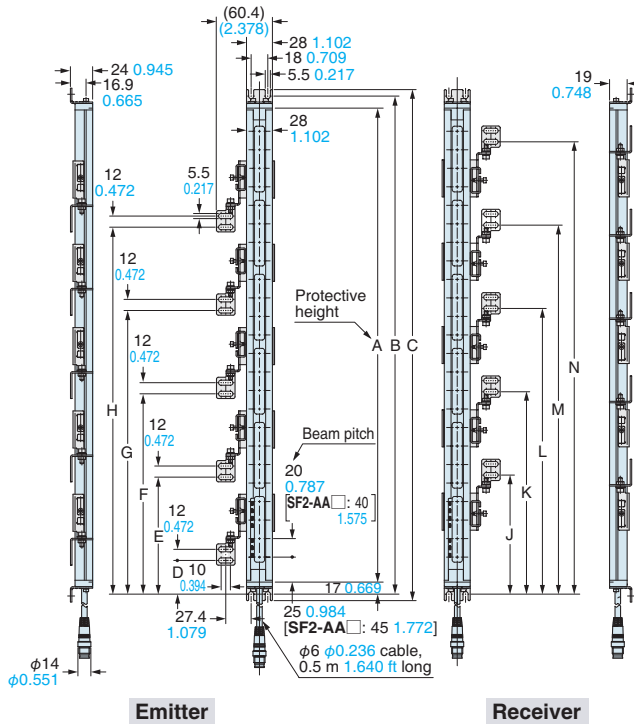
SF2-A series

SF2-AH□ (-PN) SF2-AA□ (-PN)

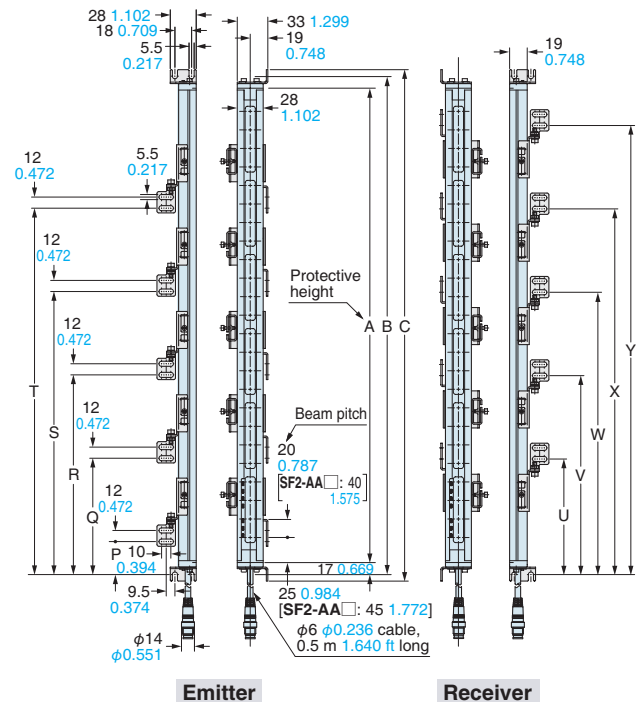
Assembly dimensions

Mounting drawing for the sensor on which the sensor mounting brackets and the intermediate supporting brackets are mounted.

<Back mounting>



<Side mounting>



Model No.	A	B	C	D	E	F	G	H	J	K	L	M	N
SF2-AH8(-PN)	190	222	232	-	-	-	-	-	-	-	-	-	-
SF2-AA4(-PN)	7.480	8.740	9.134	-	-	-	-	-	-	-	-	-	-
SF2-AH12(-PN)	270	302	312	-	-	-	-	-	-	-	-	-	-
SF2-AA6(-PN)	10.630	11.890	12.283	-	-	-	-	-	-	-	-	-	-
SF2-AH16(-PN)	350	382	392	-	-	-	-	-	-	-	-	-	-
SF2-AA8(-PN)	13.780	15.039	15.433	-	-	-	-	-	-	-	-	-	-
SF2-AH20(-PN)	430	462	472	-	-	-	-	-	-	-	-	-	-
SF2-AA10(-PN)	16.929	18.189	18.583	-	-	-	-	-	-	-	-	-	-
SF2-AH24(-PN)	510	542	552	-	-	-	-	-	-	-	-	-	-
SF2-AA12(-PN)	20.079	21.339	21.372	-	-	-	-	-	-	-	-	-	-
SF2-AH28(-PN)	590	622	632	-	-	-	-	-	-	-	-	-	-
SF2-AA14(-PN)	23.228	24.488	24.882	-	-	-	-	-	-	-	-	-	-
SF2-AH32(-PN)	670	702	712	-	-	-	-	-	-	-	-	-	-
SF2-AA16(-PN)	26.378	27.638	28.031	-	-	-	-	-	-	-	-	-	-
SF2-AH36(-PN)	750	782	792	337	-	-	-	-	433	-	-	-	-
SF2-AA18(-PN)	29.528	30.787	31.181	13.268	-	-	-	-	17.047	-	-	-	-
SF2-AH40(-PN)	830	862	872	377	-	-	-	-	473	-	-	-	-
SF2-AA20(-PN)	32.677	33.937	34.331	14.842	-	-	-	-	18.622	-	-	-	-
SF2-AH48(-PN)	990	1,022	1,032	377	537	-	-	-	473	633	-	-	-
SF2-AA24(-PN)	38.976	40.236	40.630	14.842	21.142	-	-	-	18.622	24.921	-	-	-
SF2-AH56(-PN)	1,150	1,182	1,192	377	537	697	-	-	473	633	793	-	-
SF2-AA28(-PN)	45.276	46.535	46.929	14.842	21.142	27.441	-	-	18.622	24.921	31.220	-	-
SF2-AH64(-PN)	1,310	1,342	1,352	457	617	777	-	-	553	713	873	-	-
SF2-AA32(-PN)	51.575	52.835	53.228	17.982	24.291	30.590	-	-	21.772	28.071	34.370	-	-
SF2-AH72(-PN)	1,470	1,502	1,512	537	697	857	-	-	633	793	953	-	-
SF2-AA36(-PN)	57.874	59.134	59.527	21.142	27.441	33.740	-	-	24.921	31.220	37.520	-	-
SF2-AH80(-PN)	1,630	1,662	1,672	537	697	857	1,017	-	633	793	953	1,113	-
SF2-AA40(-PN)	64.173	65.433	65.827	21.142	27.441	33.740	40.039	-	24.921	31.220	37.520	43.819	-
SF2-AH88(-PN)	1,790	1,822	1,832	537	697	857	1,017	1,177	633	793	953	1,113	1,273
SF2-AA44(-PN)	70.472	71.732	72.126	21.142	27.441	33.740	40.039	46.338	24.921	31.220	37.520	43.819	50.118
SF2-AH96(-PN)	1,950	1,982	1,992	617	777	937	1,097	1,257	713	873	1,033	1,193	1,353
SF2-AA48(-PN)	76.772	78.031	78.425	24.291	30.590	36.890	43.189	49.488	28.071	34.370	40.669	46.968	53.268

Model No.	A	B	C	P	Q	R	S	T	U	V	W	X	Y
SF2-AH8(-PN)	190	222	232	-	-	-	-	-	-	-	-	-	-
SF2-AA4(-PN)	7.480	8.740	9.134	-	-	-	-	-	-	-	-	-	-
SF2-AH12(-PN)	270	302	312	-	-	-	-	-	-	-	-	-	-
SF2-AA6(-PN)	10.630	11.890	12.283	-	-	-	-	-	-	-	-	-	-
SF2-AH16(-PN)	350	382	392	-	-	-	-	-	-	-	-	-	-
SF2-AA8(-PN)	13.780	15.039	15.433	-	-	-	-	-	-	-	-	-	-
SF2-AH20(-PN)	430	462	472	-	-	-	-	-	-	-	-	-	-
SF2-AA10(-PN)	16.929	18.189	18.583	-	-	-	-	-	-	-	-	-	-
SF2-AH24(-PN)	510	542	552	-	-	-	-	-	-	-	-	-	-
SF2-AA12(-PN)	20.079	21.339	21.372	-	-	-	-	-	-	-	-	-	-
SF2-AH28(-PN)	590	622	632	-	-	-	-	-	-	-	-	-	-
SF2-AA14(-PN)	23.228	24.488	24.882	-	-	-	-	-	-	-	-	-	-
SF2-AH32(-PN)	670	702	712	-	-	-	-	-	-	-	-	-	-
SF2-AA16(-PN)	26.378	27.638	28.031	-	-	-	-	-	-	-	-	-	-
SF2-AH36(-PN)	750	782	792	340	-	-	-	-	430	-	-	-	-
SF2-AA18(-PN)	29.528	30.787	31.181	13.386	-	-	-	-	16.929	-	-	-	-
SF2-AH40(-PN)	830	862	872	380	-	-	-	-	470	-	-	-	-
SF2-AA20(-PN)	32.677	33.937	34.331	14.961	-	-	-	-	18.504	-	-	-	-
SF2-AH48(-PN)	990	1,022	1,032	380	540	-	-	-	470	630	-	-	-
SF2-AA24(-PN)	38.976	40.236	40.630	14.961	21.260	-	-	-	18.504	24.803	-	-	-
SF2-AH56(-PN)	1,150	1,182	1,192	380	540	700	-	-	470	630	790	-	-
SF2-AA28(-PN)	45.276	46.535	46.929	14.961	21.260	27.559	-	-	18.504	24.803	31.102	-	-
SF2-AH64(-PN)	1,310	1,342	1,352	460	620	780	-	-	550	710	870	-	-
SF2-AA32(-PN)	51.575	52.835	53.228	18.110	24.409	30.709	-	-	21.654	27.953	34.252	-	-
SF2-AH72(-PN)	1,470	1,502	1,512	540	700	860	-	-	630	790	950	-	-
SF2-AA36(-PN)	57.874	59.134	59.527	21.260	27.559	33.858	-	-	24.803	31.102	37.402	-	-
SF2-AH80(-PN)	1,630	1,662	1,672	540	700	860	1,020	-	630	790	950	1,110	-
SF2-AA40(-PN)	64.173	65.433	65.827	21.260	27.559	33.858	40.157	-	24.803	31.102	37.402	43.701	-
SF2-AH88(-PN)	1,790	1,822	1,832	540	700	860	1,020	1,180	630	790	950	1,110	1,270
SF2-AA44(-PN)	70.472	71.732	72.126	21.260	27.559	33.858	40.157	46.457	24.803	31.102	37.402	43.701	50.000
SF2-AH96(-PN)	1,950	1,982	1,992	620	780	940	1,100	1,260	710	870	1,030	1,190	1,350
SF2-AA48(-PN)	76.772	78.031	78.425	24.409	30.709	37.008	43.307	49.606	27.953	34.252	40.551	46.850	53.150

Information of Discontinued Models

Type 2 Small Light Curtain SF2-A series

Dimensions (Unit: mm in)

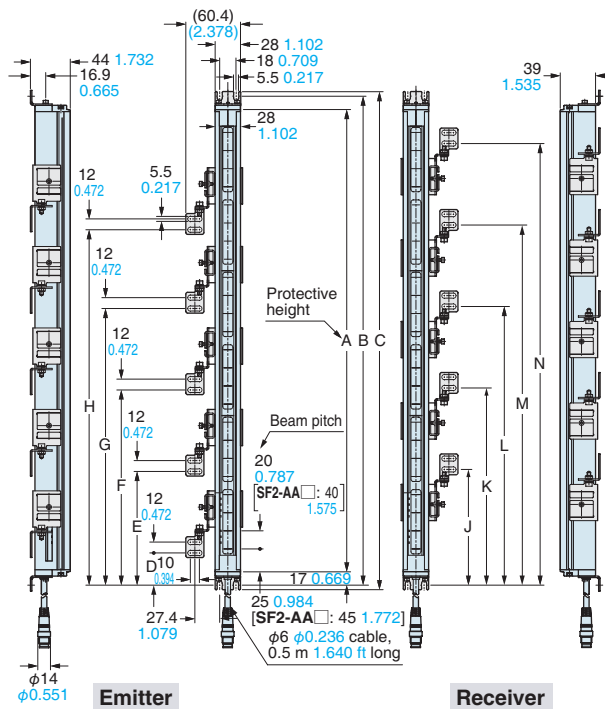
Discontinued models

SF2-A series
SF2-AH□ (-PN)-H SF2-AA□ (-PN)-H

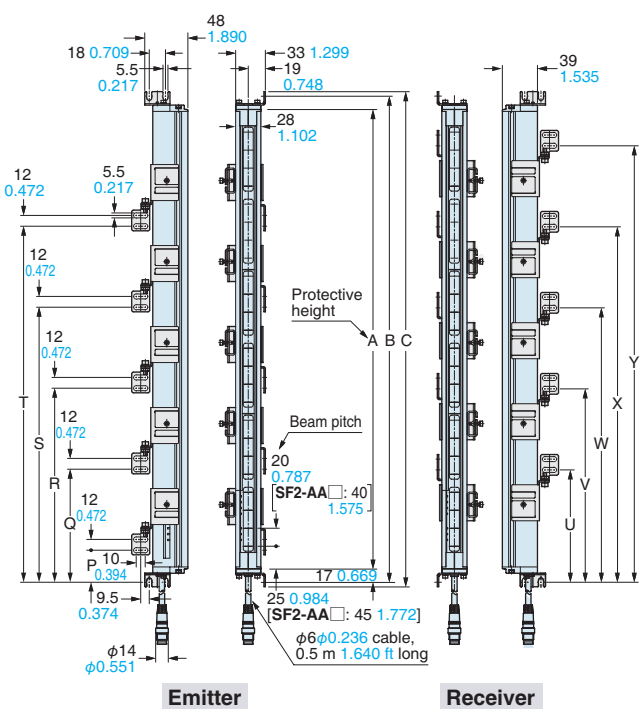
Assembly dimensions

Mounting drawing for the sensor on which the sensor mounting brackets and the intermediate supporting brackets are mounted.

<Back mounting>



<Side mounting>



Model No.	A	B	C	D	E	F	G	H	J	K	L	M	N
SF2-AH8(-PN)-H	190	222	232	-	-	-	-	-	-	-	-	-	-
SF2-AA4(-PN)-H	7.480	8.740	9.134	-	-	-	-	-	-	-	-	-	-
SF2-AH12(-PN)-H	270	302	312	-	-	-	-	-	-	-	-	-	-
SF2-AA6(-PN)-H	10.630	11.890	12.283	-	-	-	-	-	-	-	-	-	-
SF2-AH16(-PN)-H	350	382	392	-	-	-	-	-	-	-	-	-	-
SF2-AA8(-PN)-H	13.780	15.039	15.433	-	-	-	-	-	-	-	-	-	-
SF2-AH20(-PN)-H	430	462	472	-	-	-	-	-	-	-	-	-	-
SF2-AA10(-PN)-H	16.929	18.189	18.583	-	-	-	-	-	-	-	-	-	-
SF2-AH24(-PN)-H	510	542	552	-	-	-	-	-	-	-	-	-	-
SF2-AA12(-PN)-H	20.079	21.339	21.372	-	-	-	-	-	-	-	-	-	-
SF2-AH28(-PN)-H	590	622	632	-	-	-	-	-	-	-	-	-	-
SF2-AA14(-PN)-H	23.228	24.488	24.882	-	-	-	-	-	-	-	-	-	-
SF2-AH32(-PN)-H	670	702	712	-	-	-	-	-	-	-	-	-	-
SF2-AA16(-PN)-H	26.378	27.638	28.031	-	-	-	-	-	-	-	-	-	-
SF2-AH36(-PN)-H	750	782	792	-	-	-	-	-	433	-	-	-	-
SF2-AA18(-PN)-H	29.528	30.787	31.181	-	-	-	-	-	17.047	-	-	-	-
SF2-AH40(-PN)-H	830	862	872	337	-	-	-	-	473	-	-	-	-
SF2-AA20(-PN)-H	32.677	33.937	34.331	14.842	-	-	-	-	18.822	-	-	-	-
SF2-AH48(-PN)-H	990	1,022	1,032	377	537	-	-	-	473	633	-	-	-
SF2-AA24(-PN)-H	38.976	40.236	40.630	14.842	21.142	-	-	-	18.822	24.921	-	-	-
SF2-AH56(-PN)-H	1,150	1,182	1,192	377	537	697	-	-	473	633	793	-	-
SF2-AA28(-PN)-H	45.276	46.535	46.929	14.842	21.142	27.441	-	-	18.822	24.921	31.220	-	-
SF2-AH64(-PN)-H	1,310	1,342	1,352	457	617	777	-	-	553	713	873	-	-
SF2-AA32(-PN)-H	51.575	52.835	53.228	17.992	24.291	30.590	-	-	21.772	28.071	34.370	-	-
SF2-AH72(-PN)-H	1,470	1,502	1,512	537	697	857	-	-	633	793	953	-	-
SF2-AA36(-PN)-H	57.874	59.134	59.527	21.142	27.441	33.740	-	-	24.921	31.220	37.520	-	-
SF2-AH80(-PN)-H	1,630	1,662	1,672	537	697	857	1,017	-	633	793	953	1,113	-
SF2-AA40(-PN)-H	64.173	65.433	65.827	21.142	27.441	33.740	40.039	-	24.921	31.220	37.520	43.819	-
SF2-AH88(-PN)-H	1,790	1,822	1,832	537	697	857	1,017	1,177	633	793	953	1,113	1,273
SF2-AA44(-PN)-H	70.472	71.732	72.126	21.142	27.441	33.740	40.039	46.338	24.921	31.220	37.520	43.819	50.118
SF2-AH96(-PN)-H	1,950	1,982	1,992	617	777	937	1,097	1,257	713	873	1,033	1,193	1,353
SF2-AA48(-PN)-H	76.772	78.031	78.425	24.291	30.590	36.890	43.189	49.488	28.071	34.370	40.669	46.968	53.268

Model No.	A	B	C	P	Q	R	S	T	U	V	W	X	Y
SF2-AH8(-PN)-H	190	222	232	-	-	-	-	-	-	-	-	-	-
SF2-AA4(-PN)-H	7.480	8.740	9.134	-	-	-	-	-	-	-	-	-	-
SF2-AH12(-PN)-H	270	302	312	-	-	-	-	-	-	-	-	-	-
SF2-AA6(-PN)-H	10.630	11.890	12.283	-	-	-	-	-	-	-	-	-	-
SF2-AH16(-PN)-H	350	382	392	-	-	-	-	-	-	-	-	-	-
SF2-AA8(-PN)-H	13.780	15.039	15.433	-	-	-	-	-	-	-	-	-	-
SF2-AH20(-PN)-H	430	462	472	-	-	-	-	-	-	-	-	-	-
SF2-AA10(-PN)-H	16.929	18.189	18.583	-	-	-	-	-	-	-	-	-	-
SF2-AH24(-PN)-H	510	542	552	-	-	-	-	-	-	-	-	-	-
SF2-AA12(-PN)-H	20.079	21.339	21.372	-	-	-	-	-	-	-	-	-	-
SF2-AH28(-PN)-H	590	622	632	-	-	-	-	-	-	-	-	-	-
SF2-AA14(-PN)-H	23.228	24.488	24.882	-	-	-	-	-	-	-	-	-	-
SF2-AH32(-PN)-H	670	702	712	-	-	-	-	-	-	-	-	-	-
SF2-AA16(-PN)-H	26.378	27.638	28.031	-	-	-	-	-	-	-	-	-	-
SF2-AH36(-PN)-H	750	782	792	340	-	-	-	-	-	430	-	-	-
SF2-AA18(-PN)-H	29.528	30.787	31.181	13.386	-	-	-	-	-	16.929	-	-	-
SF2-AH40(-PN)-H	830	862	872	380	-	-	-	-	-	470	-	-	-
SF2-AA20(-PN)-H	32.677	33.937	34.331	14.961	-	-	-	-	-	18.504	-	-	-
SF2-AH48(-PN)-H	990	1,022	1,032	380	540	700	-	-	-	470	630	-	-
SF2-AA24(-PN)-H	38.976	40.236	40.630	14.961	21.260	27.559	-	-	-	18.504	24.803	-	-
SF2-AH56(-PN)-H	1,150	1,182	1,192	380	540	700	-	-	-	470	630	790	-
SF2-AA28(-PN)-H	45.276	46.535	46.929	14.961	21.260	27.559	-	-	-	18.504	24.803	31.102	-
SF2-AH64(-PN)-H	1,310	1,342	1,352	460	620	780	-	-	-	550	710	870	-
SF2-AA32(-PN)-H	51.575	52.835	53.228	18.110	24.409	30.709	-	-	-	21.654	27.953	34.252	-
SF2-AH72(-PN)-H	1,470	1,502	1,512	540	700	860	-	-	-	630	790	950	-
SF2-AA36(-PN)-H	57.874	59.134	59.527	21.260	27.559	33.858	-	-	-	24.803	31.102	37.402	-
SF2-AH80(-PN)-H	1,630	1,662	1,672	540	700	860	1,020	-	-	630	790	950	1,110
SF2-AA40(-PN)-H	64.173	65.433	65.827	21.260	27.559	33.858	40.157	-	-	24.803	31.102	37.402	43.701
SF2-AH88(-PN)-H	1,790	1,822	1,832	540	700	860	1,020	1,180	-	630	790	950	1,110
SF2-AA44(-PN)-H	70.472	71.732	72.126	21.260	27.559	33.858	40.157	46.457	-	24.803	31.102	37.402	43.701
SF2-AH96(-PN)-H	1,950	1,982	1,992	620	780	940	1,100	1,260	-	710	870	1,030	1,190
SF2-AA48(-PN)-H	76.772	78.031	78.425	24.409	30.709	37.008	43.307	49.606	-	27.953	34.252	40.551	46.850

Information of Discontinued Models

Type 2 Small Light Curtain SF2-A series

Dimensions (Unit: mm in)

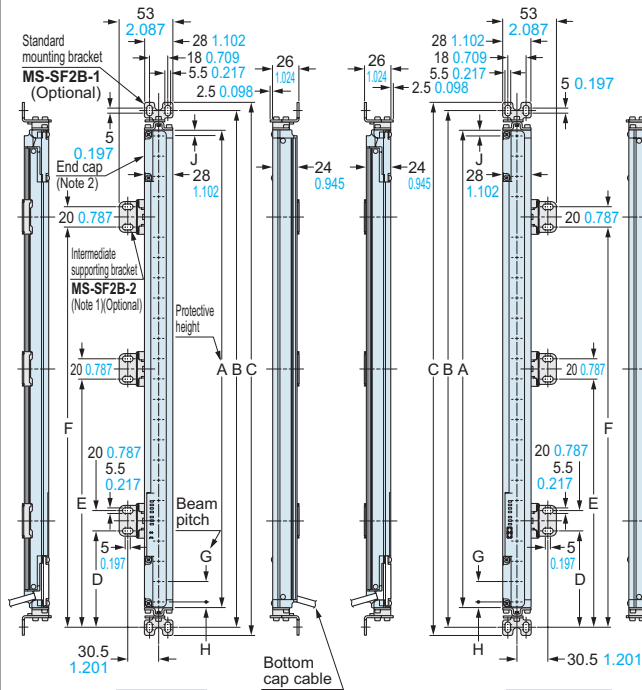
Recommended replacements

SF2B series
SF2B-□

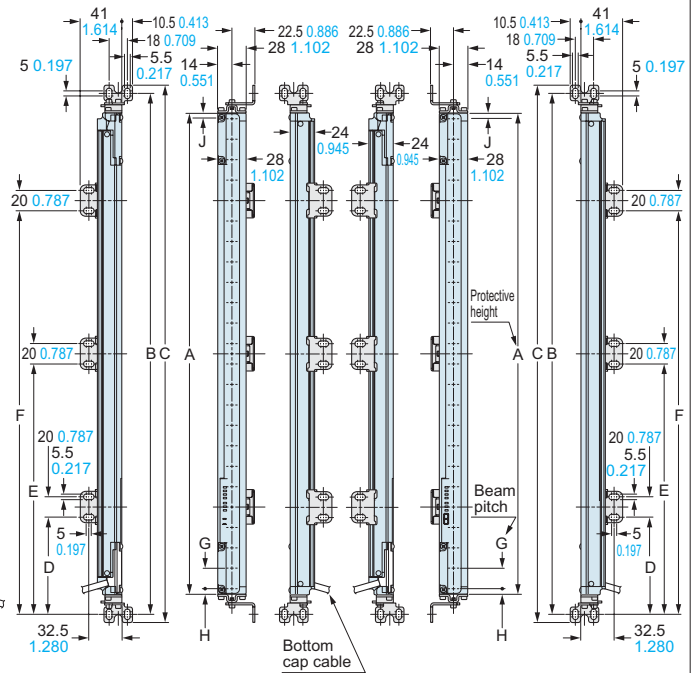
Assembly dimensions

Mounting drawing for the light curtain on which the standard mounting brackets **MS-SF2B-1** (optional) and the intermediate supporting brackets **MS-SF2B-2** are mounted.

<Back mounting>


Emitter
Receiver

<Side mounting>


Emitter
Receiver

Notes: 1) The **MS-SF2B-2** intermediate supporting bracket is provided as an accessory with this product. The number of accessories provided varies depending on the product.

2) An end cap (connector for series connection) is not provided for the **SF2B-H8(-□)** and **SF2B-A4(-□)**.

Model No.	A	B	C	D	E	F
SF2B-H8(-□)	168 6.614	207 8.150	223 8.780	—	—	—
SF2B-A4(-□)	—	—	—	—	—	—
SF2B-H12(-□)	232 9.134	270 10.630	286 11.260	—	—	—
SF2B-A6(-□)	—	—	—	—	—	—
SF2B-H16(-□)	312 12.283	350 13.780	366 14.409	—	—	—
SF2B-A8(-□)	—	—	—	—	—	—
SF2B-H20(-□)	392 15.433	430 16.929	446 17.559	—	—	—
SF2B-A10(-□)	—	—	—	—	—	—
SF2B-H24(-□)	472 18.583	510 20.079	526 20.709	—	—	—
SF2B-A12(-□)	—	—	—	—	—	—
SF2B-H28(-□)	552 21.732	590 23.228	606 23.858	—	—	—
SF2B-A14(-□)	—	—	—	—	—	—
SF2B-H32(-□)	632 24.882	670 26.378	686 27.008	—	—	—
SF2B-A16(-□)	—	—	—	—	—	—
SF2B-H36(-□)	712 28.031	750 29.528	766 30.157	—	—	—
SF2B-A18(-□)	—	—	—	—	—	—
SF2B-H40(-□)	792 31.181	830 32.677	846 33.307	390 15.354	—	—
SF2B-A20(-□)	—	—	—	—	—	—
SF2B-H48(-□)	952 37.480	990 38.976	1,006 39.606	470 18.504	—	—
SF2B-A24(-□)	—	—	—	—	—	—
SF2B-H56(-□)	1,112 43.779	1,150 45.276	1,166 45.905	550 21.654	—	—
SF2B-A28(-□)	—	—	—	—	—	—
SF2B-H64(-□)	1,272 50.079	1,310 51.575	1,326 52.205	418 16.457	842 33.150	—
SF2B-A32(-□)	—	—	—	—	—	—
SF2B-H72(-□)	1,432 56.378	1,470 57.874	1,486 58.504	472 18.583	948 37.323	—
SF2B-A36(-□)	—	—	—	—	—	—
SF2B-H80(-□)	1,592 62.677	1,630 64.173	1,646 64.803	525 20.669	1,055 41.535	—
SF2B-A40(-□)	—	—	—	—	—	—
SF2B-H88(-□)	1,752 68.976	1,790 70.472	1,806 71.102	433 17.047	870 34.252	1,308 51.496
SF2B-A44(-□)	—	—	—	—	—	—
SF2B-H96(-□)	1,912 75.275	1,950 76.772	1,966 77.401	473 18.622	950 37.402	1,428 56.220
SF2B-A48(-□)	—	—	—	—	—	—

Model No.	G	H	J (Note)
SF2B-H□	20 0.787	6 0.236	6 0.236
SF2B-A□	40 1.575	26 1.024	6 0.236

Note: The distance between the tip of the light curtain and the last beam axis of the **SF2B-H8(-□)** and **SF2B-A4(-□)** is 22 mm 0.866 in.

Information of Discontinued Models

Type 2 Small Light Curtain SF2-A series

Dimensions (Unit: mm in)

Recommended replacements

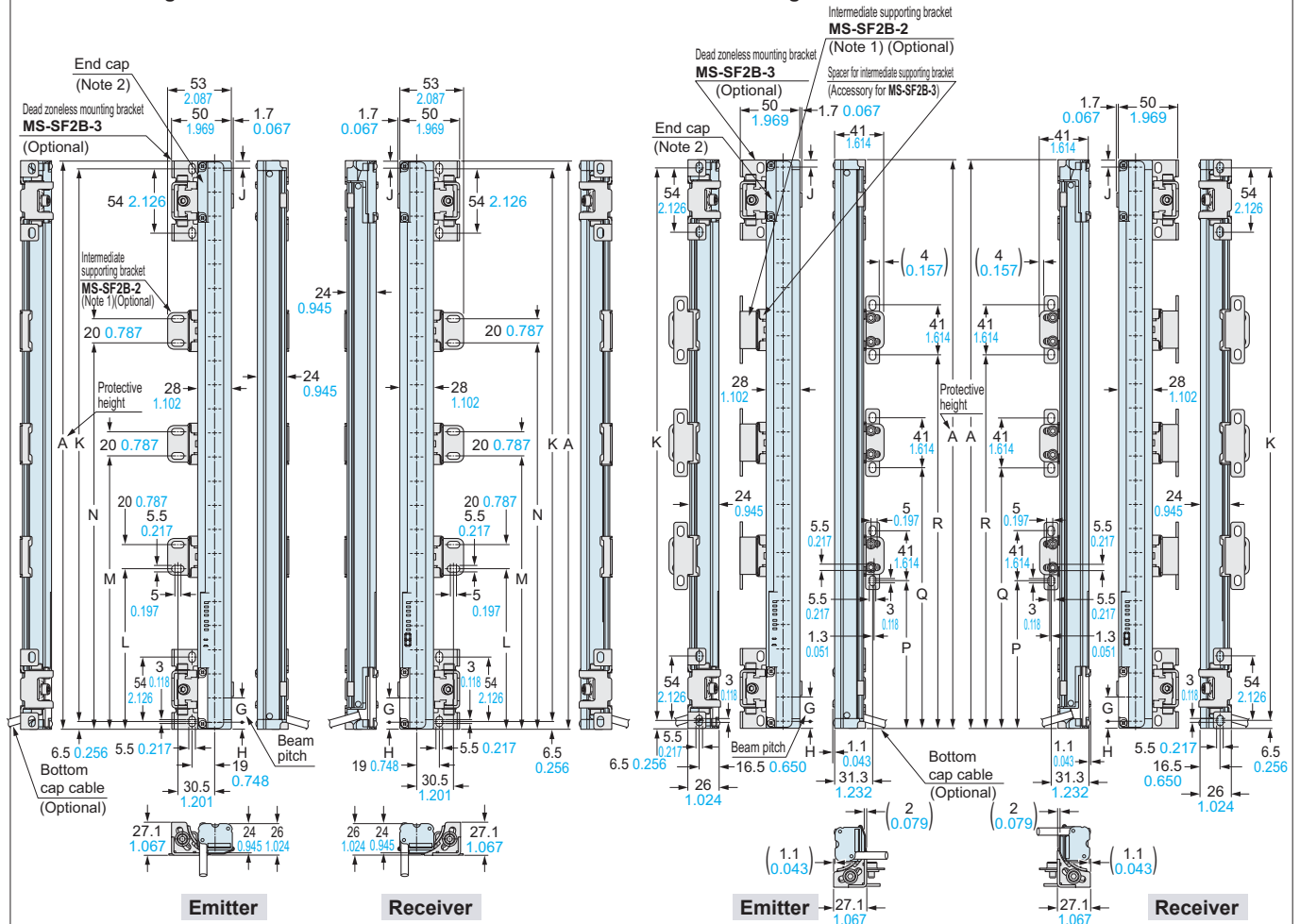
SF2B series
SF2B-□

Assembly dimensions

 Mounting drawing for the light curtain on which the dead zoneless mounting brackets **MS-SF2B-3** (optional) and the intermediate supporting brackets **MS-SF2B-2** are mounted.

<Back mounting>

<Side mounting>


 Notes: 1) The **MS-SF2B-2** intermediate supporting bracket is provided as an accessory with this product. The number of accessories provided varies depending on the product.

 2) An end cap (connector for series connection) is not provided for the **SF2B-H8(-□)** and **SF2B-A4(-□)**.

Model No.		A	K	L	M	N	P	Q	R
SF2B-H8(-□)	SF2B-A4(-□)	168 6.614	155 6.102	—	—	—	—	—	—
SF2B-H12(-□)	SF2B-A6(-□)	232 9.134	219 8.622	—	—	—	—	—	—
SF2B-H16(-□)	SF2B-A8(-□)	312 12.283	299 11.772	—	—	—	—	—	—
SF2B-H20(-□)	SF2B-A10(-□)	392 15.433	379 14.921	—	—	—	—	—	—
SF2B-H24(-□)	SF2B-A12(-□)	472 18.583	459 18.071	—	—	—	—	—	—
SF2B-H28(-□)	SF2B-A14(-□)	552 21.732	539 21.221	—	—	—	—	—	—
SF2B-H32(-□)	SF2B-A16(-□)	632 24.882	619 24.370	—	—	—	—	—	—
SF2B-H36(-□)	SF2B-A18(-□)	712 28.031	699 27.520	—	—	—	—	—	—
SF2B-H40(-□)	SF2B-A20(-□)	792 31.181	779 30.669	390 15.354	—	—	379.5 14.941	—	—
SF2B-H48(-□)	SF2B-A24(-□)	952 37.480	939 36.969	470 18.504	—	—	459.5 18.091	—	—
SF2B-H56(-□)	SF2B-A28(-□)	1,112 43.779	1,099 43.268	550 21.654	—	—	539.5 21.240	—	—
SF2B-H64(-□)	SF2B-A32(-□)	1,272 50.079	1,259 49.567	418 16.457	842 33.150	—	407.5 16.043	831.5 32.736	—
SF2B-H72(-□)	SF2B-A36(-□)	1,432 56.378	1,419 55.866	472 18.583	948 37.323	—	461.5 18.169	937.5 36.909	—
SF2B-H80(-□)	SF2B-A40(-□)	1,592 62.677	1,579 62.165	525 20.669	1,055 41.535	—	514.5 20.256	1,044.5 41.122	—
SF2B-H88(-□)	SF2B-A44(-□)	1,752 68.976	1,739 68.465	433 17.047	870 34.252	1,308 51.496	422.5 16.634	859.5 33.839	1,297.5 51.083
SF2B-H96(-□)	SF2B-A48(-□)	1,912 75.275	1,899 74.764	473 18.622	950 37.402	1,428 56.220	462.5 18.209	939.5 33.839	1,417.5 55.807

Model No.	G	H	J (Note)
SF2B-H□	20	6	6
	0.787	0.236	0.236
SF2B-A□	40	26	6
	1.575	1.024	0.236

 Note: The distance between the tip of the light curtain and the last beam axis of the **SF2B-H8(-□)** and **SF2B-A4(-□)** is 22 mm 0.866 in.

Information of Discontinued Models

Type 2 Small Light Curtain SF2-A series

Main rated specifications

Individual specifications

SF2-AH □ (-PN)(-H)

Type		Discontinued models								
		20 mm 0.787 in beam pitch								
Item	Model No.	NPN output	SF2-AH8(-H)	SF2-AH12(-H)	SF2-AH16(-H)	SF2-AH20(-H)	SF2-AH24(-H)	SF2-AH28(-H)	SF2-AH32(-H)	SF2-AH36(-H)
		PNP output	SF2-AH8-PN(-H)	SF2-AH12-PN(-H)	SF2-AH16-PN(-H)	SF2-AH20-PN(-H)	SF2-AH24-PN(-H)	SF2-AH28-PN(-H)	SF2-AH32-PN(-H)	SF2-AH36-PN(-H)
No. of beam channels			8	12	16	20	24	28	32	36
Beam pitch			20 mm 0.787 in							
Protective height			190 mm 7.480 in	270 mm 10.630 in	350 mm 13.780 in	430 mm 16.929 in	510 mm 20.079 in	590 mm 23.228 in	670 mm 26.378 in	750 mm 29.528 in
Current consumption			Emitter: 45 mA or less, Receiver: 60 mA or less				Emitter: 55 mA or less, Receiver: 70 mA or less			
Weight (Total of emitter and receiver)	SF2-AH□(-PN)		350 g approx.	430 g approx.	520 g approx.	610 g approx.	700 g approx.	780 g approx.	880 g approx.	960 g approx.
	SF2-AH□(-PN)-H		420 g approx.	560 g approx.	700 g approx.	830 g approx.	970 g approx.	1,100 g approx.	1,200 g approx.	1,400 g approx.

Type		Discontinued models								
		20 mm 0.787 in beam pitch								
Item	Model No.	NPN output	SF2-AH40(-H)	SF2-AH48(-H)	SF2-AH56(-H)	SF2-AH64(-H)	SF2-AH72(-H)	SF2-AH80(-H)	SF2-AH88(-H)	SF2-AH96(-H)
		PNP output	SF2-AH40-PN(-H)	SF2-AH48-PN(-H)	SF2-AH56-PN(-H)	SF2-AH64-PN(-H)	SF2-AH72-PN(-H)	SF2-AH80-PN(-H)	SF2-AH88-PN(-H)	SF2-AH96-PN(-H)
No. of beam channels			40	48	56	64	72	80	88	96
Beam pitch			20 mm 0.787 in							
Protective height			830 mm 32.677 in	990 mm 38.976 in	1,150 mm 45.276 in	1,310 mm 51.575 in	1,470 mm 57.874 in	1,630 mm 64.173 in	1,790 mm 70.472 in	1,950 mm 76.772 in
Current consumption			Emitter: 60 mA or less, Receiver: 80 mA or less		Emitter: 65 mA or less, Receiver: 95 mA or less		Emitter: 70 mA or less, Receiver: 110 mA or less		Emitter: 80 mA or less, Receiver: 120 mA or less	
Weight (Total of emitter and receiver)	SF2-AH□(-PN)		1,100 g approx.	1,200 g approx.	1,400 g approx.	1,600 g approx.	1,800 g approx.	1,900 g approx.	2,100 g approx.	2,300 g approx.
	SF2-AH□(-PN)-H		1,500 g approx.	1,800 g approx.	2,100 g approx.	2,300 g approx.	2,600 g approx.	2,900 g approx.	3,200 g approx.	3,400 g approx.

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

SF2-AA □ (-PN)(-H)

Type		Discontinued models								
		40 mm 1.575 in beam pitch								
Item	Model No.	NPN output	SF2-AA4(-H)	SF2-AA6(-H)	SF2-AA8(-H)	SF2-AA10(-H)	SF2-AA12(-H)	SF2-AA14(-H)	SF2-AA16(-H)	SF2-AA18(-H)
		PNP output	SF2-AA4-PN(-H)	SF2-AA6-PN(-H)	SF2-AA8-PN(-H)	SF2-AA10-PN(-H)	SF2-AA12-PN(-H)	SF2-AA14-PN(-H)	SF2-AA16-PN(-H)	SF2-AA18-PN(-H)
No. of beam channels			4	6	8	10	12	14	16	18
Beam pitch			40 mm 1.575 in							
Protective height			190 mm 7.480 in	270 mm 10.630 in	350 mm 13.780 in	430 mm 16.929 in	510 mm 20.079 in	590 mm 23.228 in	670 mm 26.378 in	750 mm 29.528 in
Current consumption			Emitter: 40 mA or less, Receiver: 50 mA or less				Emitter: 45 mA or less, Receiver: 60 mA or less			
Weight (Total of emitter and receiver)	SF2-AA□(-PN)		350 g approx.	430 g approx.	520 g approx.	610 g approx.	700 g approx.	780 g approx.	880 g approx.	960 g approx.
	SF2-AA□(-PN)-H		420 g approx.	560 g approx.	700 g approx.	830 g approx.	970 g approx.	1,100 g approx.	1,200 g approx.	1,400 g approx.

Type		Discontinued models								
		40 mm 1.575 in beam pitch								
Item	Model No.	NPN output	SF2-AA20(-H)	SF2-AA24(-H)	SF2-AA28(-H)	SF2-AA32(-H)	SF2-AA36(-H)	SF2-AA40(-H)	SF2-AA44(-H)	SF2-AA48(-H)
		PNP output	SF2-AA20-PN(-H)	SF2-AA24-PN(-H)	SF2-AA28-PN(-H)	SF2-AA32-PN(-H)	SF2-AA36-PN(-H)	SF2-AA40-PN(-H)	SF2-AA44-PN(-H)	SF2-AA48-PN(-H)
No. of beam channels			20	24	28	32	36	40	44	48
Beam pitch			40 mm 1.575 in							
Protective height			830 mm 32.677 in	990 mm 38.976 in	1,150 mm 45.276 in	1,310 mm 51.575 in	1,470 mm 57.874 in	1,630 mm 64.173 in	1,790 mm 70.472 in	1,950 mm 76.772 in
Current consumption			Emitter: 50 mA or less, Receiver: 65 mA or less		Emitter: 50 mA or less, Receiver: 70 mA or less		Emitter: 55 mA or less, Receiver: 75 mA or less		Emitter: 60 mA or less, Receiver: 80 mA or less	
Weight (Total of emitter and receiver)	SF2-AA□(-PN)		1,100 g approx.	1,200 g approx.	1,400 g approx.	1,600 g approx.	1,800 g approx.	1,900 g approx.	2,100 g approx.	2,300 g approx.
	SF2-AA□(-PN)-H		1,500 g approx.	1,800 g approx.	2,100 g approx.	2,300 g approx.	2,600 g approx.	2,900 g approx.	3,200 g approx.	3,400 g approx.

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

Information of Discontinued Models

Type 2 Small Light Curtain SF2-A series

Main rated specifications

Common specifications

Item	Model No.	Discontinued models			
		20 mm 0.787 in beam pitch		40 mm 1.575 in beam pitch	
		NPN output	PNP output	NPN output	PNP output
		SF2-AH□(-H)	SF2-AH□-PN(-H)	SF2-AA□(-H)	SF2-AA□-PN(-H)
Applicable standards		Category 2 based on EN 954-1 (Type 2 based on IEC 61496-1/2)			
Operating range		0.3 to 7 m 0.984 to 22.966 ft (Note 2)			
Min. sensing object		φ30 mm φ1.181 in opaque object		φ50 mm φ1.969 in opaque object	
Effective aperture angle		± 5 ° or less for a operating range exceeding 3 m 9.843 ft (conforming to IEC 61496-2 / UL 61496-2)			
Supply voltage		24 V DC ± 15 % Ripple P-P 10 % or less			
Control output (OSSD)		<NPN output type> NPN open-collector transistor • Maximum sink current: 200 mA • Applied voltage: Same as supply voltage (between control output and 0V) • Residual voltage: 2.0 V or less (at 200 mA sink current)		<PNP output type> PNP open-collector transistor • 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 when one or more beam channels are interrupted (OFF also in case of any malfunction in the sensor or the synchronization signal)			
	Protection circuit	Incorporated			
Response time		OFF response: 15 ms or less, ON response: 40 to 60 ms or less (under stable light received condition)			
Alarm output (Alarm)		<NPN output type> NPN open-collector transistor • Maximum sink current: 60 mA • Applied voltage: Same as supply voltage (between alarm output and 0 V) • Residual voltage: 2.0 V or less (at 60 mA sink current)		<PNP output type> PNP open-collector transistor • Maximum source current: 60 mA • Applied voltage: Same as supply voltage (between alarm output and + V) • Residual voltage: 2.5 V or less (at 60 mA source current)	
	Operation mode	Normal operation: Alarm output ON, Failure resulting in emission halt, or when test input is applied: Alarm output OFF			
	Protection circuit	Incorporated			
Emission halt function		Incorporated			
Degree of protection		IP65 (IEC)			
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, Resin case: ABS, Lens: Polycarbonate, Cap: PBT			
Cable		Emitter: 6-core (0.3 mm ² × 4-core, 0.2 mm ² × 2-core) shielded cable, 0.5 m 1.640 ft long, with a connector at the end Receiver: 7-core (0.3 mm ² × 5-core, 0.2 mm ² × 2-core) shielded cable, 0.5 m 1.640 ft long, with a connector at the end			
Cable extension		Extension up to total 20.5 m 67.257 ft is possible, for both emitter and receiver, with optional mating cables			
Accessories		MS-SF2N-1 (Rear 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 3) MS-SF2N-L (L-shaped intermediate supporting bracket): (Note 3) SF2-AH-TR (Test rod): 1 pc. [SF2-AH □(-PN)(-H) only]			

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

2) The operating range is the possible setting distance between the emitter and the receiver.

The light curtain can detect an object less than 0.3 m 0.984 ft away.

3) U-shaped rear mounting intermediate supporting bracket (**MS-SF2N-2** or **MS-SF4A-H2**) and L-shaped intermediate supporting bracket (**MS-SF2N-L**) 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.

SF2-AH36(-PN)(-H), **SF2-AH40(-PN)(-H)**, **SF2-AA18(-PN)(-H)**, **SF2-AA20(-PN)(-H)**: 1 set

SF2-AH48(-PN)(-H), **SF2-AA24(-PN)(-H)**: 2 sets

SF2-AH56(-PN)(-H), **SF2-AH64(-PN)(-H)**, **SF2-AH72(-PN)(-H)**, **SF2-AA28(-PN)(-H)**, **SF2-AA32(-PN)(-H)**, **SF2-AA36(-PN)(-H)**: 3 sets

SF2-AH80(-PN)(-H), **SF2-AA40(-PN)(-H)**: 4 sets

SF2-AH88(-PN)(-H), **SF2-AH96(-PN)(-H)**, **SF2-AA44(-PN)(-H)**, **SF2-AA48(-PN)(-H)**: 5 sets

Information of Discontinued Models

Type 2 Small Light Curtain SF2-A series

Main rated specifications

Individual specifications

SF2B-H□ Hand protection type

Type		Recommended replacements							
		Min. sensing object $\varnothing 27$ mm $\varnothing 1.063$ in type (20 mm 0.787 in beam pitch)							
Item	Model No.	NPN output	SF2B-H8-N	SF2B-H12-N	SF2B-H16-N	SF2B-H20-N	SF2B-H24-N	SF2B-H28-N	
		PNP output	SF2B-H8-P	SF2B-H12-P	SF2B-H16-P	SF2B-H20-P	SF2B-H24-P	SF2B-H28-P	
No. of beam channels			8	12	16	20	24	28	
Beam pitch		20 mm 0.787 in							
Protective height		168 mm 6.614 in	232 mm 9.134 in	312 mm 12.283 in	392 mm 15.433 in	472 mm 18.583 in	552 mm 21.732 in		
Current consumption		Emitter: 40 mA or less Receiver: 50 mA or less			Emitter: 40 mA or less Receiver: 60 mA or less		Emitter: 50 mA or less Receiver: 70 mA or less		
Net weight (total of emitter and receiver)		170 g approx.	280 g approx.	400 g approx.	510 g approx.	610 g approx.	720 g approx.		

Type		Recommended replacements							
		Min. sensing object $\varnothing 27$ mm $\varnothing 1.063$ in type (20 mm 0.787 in beam pitch)							
Item	Model No.	NPN output	SF2B-H32-N	SF2B-H36-N	SF2B-H40-N	SF2B-H48-N	SF2B-H56-N	SF2B-H64-N	
		PNP output	SF2B-H32-P	SF2B-H36-P	SF2B-H40-P	SF2B-H48-P	SF2B-H56-P	SF2B-H64-P	
No. of beam channels			32	36	40	48	56	64	
Beam pitch		20 mm 0.787 in							
Protective height		632 mm 24.882 in	712 mm 28.031 in	792 mm 31.181 in	952 mm 37.480 in	1,112 mm 43.779 in	1,272 mm 50.079 in		
Current consumption		Emitter: 50 mA or less Receiver: 80 mA or less			Emitter: 60 mA or less Receiver: 90 mA or less		Emitter: 65 mA or less Receiver: 110 mA or less		
Net weight (total of emitter and receiver)		830 g approx.	930 g approx.	1,000 g approx.	1,300 g approx.	1,500 g approx.	1,700 g approx.		

Type		Recommended replacements					
		Min. sensing object $\varnothing 27$ mm $\varnothing 1.063$ in type (20 mm 0.787 in beam pitch)					
Item	Model No.	NPN output	SF2B-H72-N	SF2B-H80-N	SF2B-H88-N	SF2B-H96-N	
		PNP output	SF2B-H72-P	SF2B-H80-P	SF2B-H88-P	SF2B-H96-P	
No. of beam channels			72	80	88	96	
Beam pitch		20 mm 0.787 in					
Protective height		1,432 mm 56.378 in	1,592 mm 62.677 in	1,752 mm 68.976 in	1,912 mm 75.275 in		
Current consumption		Emitter: 70 mA or less Receiver: 130 mA or less			Emitter: 80 mA or less Receiver: 150 mA or less		
Net weight (total of emitter and receiver)		1,900 g approx.	2,100 g approx.	2,300 g approx.	2,500 g approx.		

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

SF2B-A□ Arm / Foot protection type

Type		Recommended replacements							
		Min. sensing object $\varnothing 47$ mm $\varnothing 1.850$ in type (40 mm 1.575 in beam pitch)							
Item	Model No.	NPN output	SF2B-A4-N	SF2B-A6-N	SF2B-A8-N	SF2B-A10-N	SF2B-A12-N	SF2B-A14-N	
		PNP output	SF2B-A4-P	SF2B-A6-P	SF2B-A8-P	SF2B-A10-P	SF2B-A12-P	SF2B-A14-P	
No. of beam channels			4	6	8	10	12	14	
Beam pitch		40 mm 1.575 in							
Protective height		168 mm 6.614 in	232 mm 9.134 in	312 mm 12.283 in	392 mm 15.433 in	472 mm 18.583 in	552 mm 21.732 in		
Current consumption		Emitter: 35 mA or less Receiver: 45 mA or less			Emitter: 35 mA or less Receiver: 50 mA or less		Emitter: 40 mA or less Receiver: 55 mA or less		
Net weight (total of emitter and receiver)		170 g approx.	280 g approx.	400 g approx.	510 g approx.	610 g approx.	720 g approx.		

Type		Recommended replacements							
		Min. sensing object $\varnothing 47$ mm $\varnothing 1.850$ in type (40 mm 1.575 in beam pitch)							
Item	Model No.	NPN output	SF2B-A16-N	SF2B-A18-N	SF2B-A20-N	SF2B-A24-N	SF2B-A28-N	SF2B-A32-N	
		PNP output	SF2B-A16-P	SF2B-A18-P	SF2B-A20-P	SF2B-A24-P	SF2B-A28-P	SF2B-A32-P	
No. of beam channels			16	18	20	24	28	32	
Beam pitch		40 mm 1.575 in							
Protective height		632 mm 24.882 in	712 mm 28.031 in	792 mm 31.181 in	952 mm 37.480 in	1,112 mm 43.779 in	1,272 mm 50.079 in		
Current consumption		Emitter: 40 mA or less Receiver: 60 mA or less			Emitter: 45 mA or less Receiver: 65 mA or less		Emitter: 50 mA or less Receiver: 75 mA or less		
Net weight (total of emitter and receiver)		830 g approx.	930 g approx.	1,000 g approx.	1,300 g approx.	1,500 g approx.	1,700 g approx.		

Type		Recommended replacements					
		Min. sensing object $\varnothing 47$ mm $\varnothing 1.850$ in type (40 mm 1.575 in beam pitch)					
Item	Model No.	NPN output	SF2B-A36-N	SF2B-A40-N	SF2B-A44-N	SF2B-A48-N	
		PNP output	SF2B-A36-P	SF2B-A40-P	SF2B-A44-P	SF2B-A48-P	
No. of beam channels			36	40	44	48	
Beam pitch		40 mm 1.575 in					
Protective height		1,432 mm 56.378 in	1,592 mm 62.677 in	1,752 mm 68.976 in	1,912 mm 75.275 in		
Current consumption		Emitter: 55 mA or less Receiver: 85 mA or less			Emitter: 60 mA or less Receiver: 95 mA or less		
Net weight (total of emitter and receiver)		1,900 g approx.	2,100 g approx.	2,300 g approx.	2,500 g approx.		

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

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Information of Discontinued Models

Type 2 Small Light Curtain SF2-A series

Main rated specifications

Common specifications

Item	Model No.	Recommended replacements			
		Min. sensing object $\varnothing 27$ mm $\varnothing 1.063$ in type (20 mm 0.787 in beam pitch)		Min. sensing object $\varnothing 47$ mm $\varnothing 1.850$ in type (40 mm 1.575 in beam pitch)	
Type		NPN output	PNP output	NPN output	PNP output
		SF2B-H□-N	SF2B-H□-P	SF2B-A□-N	SF2B-A□-P
Applicable standards		ISO 13849-1 (Category 2), EN 954-1 (Category 2), EN 61496-1 (Type 2), IEC 61496-1/2 (Type 2), UL 61496-1/2 (Type 2), UL 1998, JIS B 9704-1/2 (Type 2), JIS B 9705-1 (Category 2)			
Operating range		0.2 to 13 m 0.656 to 42.651 ft (0.2 to 5 m 0.656 to 16.404 ft when using the SF2B-CB05-B adapter cable)			
Min. sensing object		$\varnothing 27$ mm $\varnothing 1.063$ in opaque object		$\varnothing 47$ mm $\varnothing 1.850$ in opaque object	
Effective aperture angle		$\pm 5^\circ$ or less [for an operating range exceeding 3 m 9.843 ft (conforming to IEC 61496-2 / UL 61496-2)]			
Supply voltage		24 V DC $\pm 15\%$ Ripple P-P 10% or less			
Control outputs (OSSD 1, OSSD 2)		<NPN output type> NPN open-collector transistor <ul style="list-style-type: none"> Max. sink current: 200 mA Applied voltage: same as supply voltage [between the control output (OSSD 1, OSSD 2) 0 V] Residual voltage: 2.0 V or less (sink current 200 mA) (when using 30.5 m 100.066 ft length cable) 		<PNP output type> PNP open-collector transistor <ul style="list-style-type: none"> Max. source current: 200 mA Applied voltage: same as supply voltage [between the control output (OSSD 1, OSSD 2) and +V] Residual voltage: 2.5 V or less (sink current 200 mA) (when using 30.5 m 100.066 ft length cable) 	
Operation mode		ON when all beam channels are received, OFF when one or more beam channels are interrupted (OFF also in case of any malfunction in the light curtain or the synchronization signal)			
Protection circuit		Incorporated			
Response time		OFF response: 15 ms or less, ON response: 40 to 60 ms			
Auxiliary output (Aux) (Note 2)		<NPN output type> NPN open-collector transistor <ul style="list-style-type: none"> Max. sink current: 60 mA Applied voltage: same as supply voltage [between the auxiliary output and 0 V] Residual voltage: 2.0 V or less (sink current 60 mA) (when using 30.5 m 100.066 ft length cable) 		<PNP output type> PNP open-collector transistor <ul style="list-style-type: none"> Max. source current: 60 mA Applied voltage: same as supply voltage [between the auxiliary output and +V] Residual voltage: 2.5 V or less (sink current 60 mA) (when using 30.5 m 100.066 ft length cable) 	
Operation mode		When using SF2B-CCB□ or SF2B-CB□: OFF when OSSD ON, ON when OSSD OFF When using SF2B-CB05-A: ON during normal operation, OFF when there is a problem with emitter operation or emission is halted			
Protection circuit		Incorporated			
Synchronization method		Cable synchronization (optical synchronization when using SF2B-CB05-B)			
Interference prevention function		Incorporated <ul style="list-style-type: none"> Series connection: 3 sets max. (Total 128 beam channels). (However, SF2B-A□ allows up to a total of 96 beam channels when two sets are connected, and up to 64 beam channels when three sets are connected). (Note 3) SF2B-H□ and SF2B-A□ can be used together. (Note 4) (When using SF2B-CB05-B (optical synchronization): <ul style="list-style-type: none"> Series connection: 3 sets max. (Total 128 beam channels). (However, SF2B-A□ allows up to a total of 96 beam channels when two sets are connected, and up to 64 beam channels when three sets are connected). (Note 3) Parallel connection: 2 sets max. Series and parallel mixed connection: Series connection of 3 sets max. and parallel connection of 2 sets max. are simultaneously possible. SF2B-H□ and SF2B-A□ can be used together. (Note 4)			
Emission halt function		Incorporated			
External device monitoring function		Incorporated			
Degree of protection		IP65(IEC)			
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, Upper and lower edges : Die-cast zinc alloy, Inner case: Polycarbonate · Polyester resin, Cap: PBT			
Cable extension		Extension up to total 30.5 m 100.066 ft is possible for both emitter and receiver, with optional mating cables.			
Accessories		MS-SF2B-2 (Intermediate supporting bracket): (Note 5) SF2B-TR27 (Test rod): 1 No.		MS-SF2B-2 (Intermediate supporting bracket): (Note 5)	

- Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +20 °C **+68 °F**.
 2) When using auxiliary output (AUX), the SF2B-CB05-B adapter cable (optional) cannot be used.
 3) The SF2B-H8-□ and SF2B-A4-□ cannot be connected in series.
 4) If using the SF2B-H□ and SF2B-A□ together in a series connection, only the number of beam channels for the SF2B-A□ must be doubled, and the total number of beam channels must be 128 or less.
 Example: If using the SF2B-H36 and SF2B-A44 in a series connection, the total number of beam channels will be 124.
 Number of SF2B-H36 beam channels + (Number of SF2B-A44 beam channels × 2) = Total number of beam channels
 36 beam channels + (44 beam channels × 2) = 124 beam channels
 5) The intermediate supporting bracket MS-SF2B-2 is enclosed with the following models. The quantity of the enclosed bracket differs depending on the model as follows:
 1 set: SF2B-H□ ... Light curtain with 40 to 56 beam channels, SF2B-A□ ... Light curtain with 20 to 28 beam channels
 2 sets: SF2B-H□ ... Light curtain with 64 to 80 beam channels, SF2B-A□ ... Light curtain with 32 to 40 beam channels
 3 sets: SF2B-H□ ... Light curtain with 88 to 96 beam channels, SF2B-A□ ... Light curtain with 44 to 48 beam channels

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