OMRON



Safety Light Curtain F3SG-□RE Series



Quick Installation Manual



Document Title	Cat. No.
Safty Light Curtain F3SG-R Series User's Manual	Z352-E1

Introduction

Thank you for purchasing the F3SG-□RE Series Safety Light Curtain (hereinafter referred to as the "F3SG-RE"). This document contains simple instructions to install the F3SG-RE.

Please download the F3SG-RE User's Manual for full contents of the instructions from our website at: http://www.ia.omron.com/f3sg-r

Table of Contents

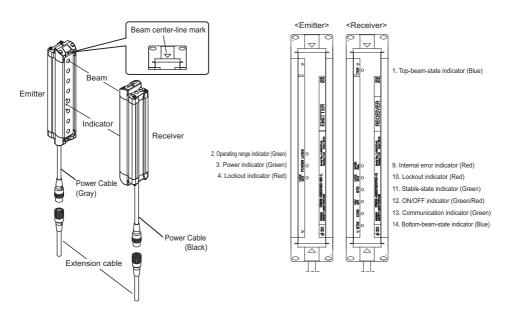
	_
1. What is Included	1
2. System Components	2
3. F3SG-RE Setup Procedure Example	
4. Wiring Examples	
4-1. Long Mode	3
4-2. Short Mode	
5. Mounting and Beam Alignment	4
5-1. Mounting with Standard Fixed Brackets (F39-LGF)	2
5-2. Mounting with Standard Adjustable Brackets (F39-LGA)	6
6. Operation Check	9
Suitability for Use/Contact Information	9

1. What is Included

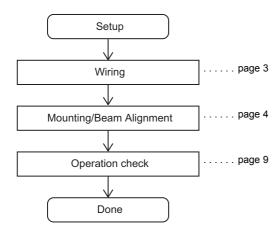
Product	Quantity
F3SG-DREDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	Emitter x 1, Receiver x 1
Standard Fixed Bracket	The number of brackets included depends on protective height of the F3SG-RE. Less than 1,280 mm: 2 sets 1,280 mm or longer and up to 2,270 mm: 3 sets 2,350 mm or longer and up to 2,510 mm: 4 sets
Troubleshooting Guide Sticker	1
Safety Precautions	4
Quick Installation Manual	1

For ratings/specifications, input/output circuit, LED indicator status and troubleshooting, refer to Safety Light Curtain F3SG-R Series User's Manual.

2. System Components



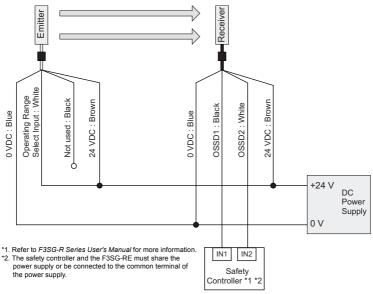
3. F3SG-RE Setup Procedure Example



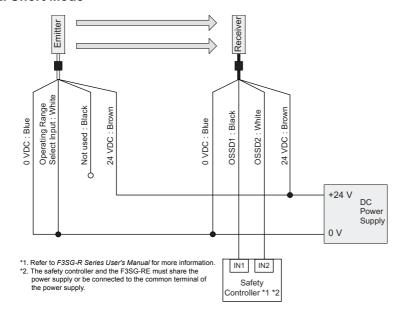
4. Wiring Examples

For input/output circuit and other examples than below, refer to Safety Light Curtain F3SG-R Series User's Manual.

4-1. Long Mode



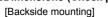
4-2. Short Mode



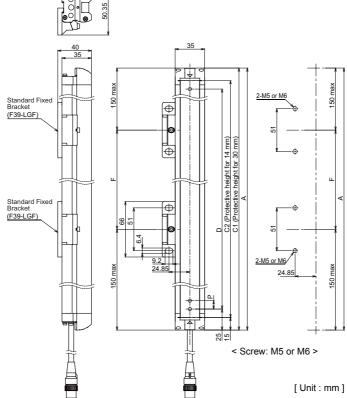
5. Mounting and Beam Alignment

5-1. Mounting with Standard Fixed Brackets (F39-LGF)

■Dimensions (Check position)







F3SG- \square RE \square \square \square 030 Series

TOOC BILL BBBBB OCTION		
Dimension A	C1	
Dimension C1	4-digit number of the type name (Protective height)	
Dimension D	C1-50	
Dimension P	20	

Protective height (C1)	Number of Standard Fixed Brackets *1	Dimension F
0190 to 1230	2 *2	1000 mm max.
1310 to 2270	3	1000 mm max.
2350 to 2510	4	1000 mm max.

F3SG-□RE□□□□□14 Series

Dimension A	C2+30
Dimension C2	4-digit number of the type name (Protective height)
Dimension D	C2-20
Dimension P	10

Protective height (C2)	Number of Standard Fixed Brackets *1	Dimension F
0160 to 1200	2 *2	1000 mm max.
1280 to 2080	3	1000 mm max.

^{*1.} The number of brackets required to mount either one of emitter and receiver.

^{*2.} Mounting an emitter or receiver with one bracket is possible for the models of protective height of 0160 to 0270. In this case, locate this bracket at half the Dimension A (or at the center of the sensor length).

Refer to Safety Light Curtain F3SG-R Series User's Manual for dimensions of side mounting.

■Mounting

Step1

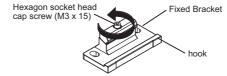
Check

position

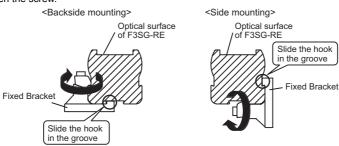
Mount

Note: Although this chapter uses the figures of the F3SG-RA series safety light curtain, the mounting procedure of the F3SG-RE series is the same as the F3SG-RA series.

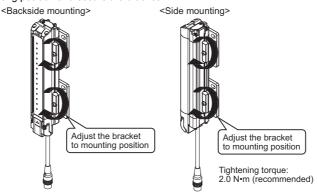
1. Loosen the screw.



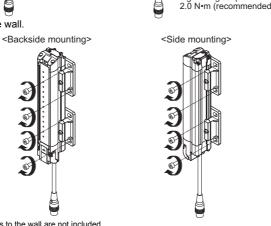
2. Lightely tighten the screw.



3. Adjust the mounting position and secure the bracket.



4. Secure the bracket to the wall.

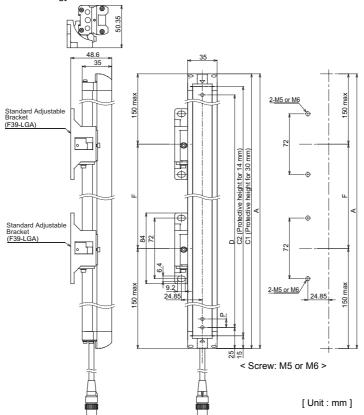


Screws to mount the brackets to the wall are not included.

5-2. Mounting with Standard Adjustable Brackets (F39-LGA)

■Dimensions (Check position)

[Backside mounting]



F3SG-□RE□□□□□30 Series

Dimension A	C1	
Dimension C1	4-digit number of the type name (Protective height)	
Dimension D	C1-50	
Dimension P	20	

F3SG-L	RELL	⊔⊔⊔14	Series

Dimension A	C2+30	
Dimension C2	4-digit number of the type name (Protective height)	
Dimension D	C2-20	
Dimension P	10	

Protective height (C1)	Number of Standard Adjustable Brackets *1	Dimension F
0190 to 1230	2 *2	1000 mm max.
1310 to 2270	3	1000 mm max.
2350 to 2510	4	1000 mm max.

Protective height (C2)	Number of Standard Adjustable Brackets *1	Dimension F
0160 to 1200	2 *2	1000 mm max.
1280 to 2080	3	1000 mm max.

*1. The number of brackets required to mount either one of emitter and receiver.

Refer to Safety Light Curtain F3SG-R Series User's Manual for dimensions of side mounting.





Align

^{*2.} Mounting an emitter or receiver with one bracket is possible for the models of protective height of 0160 to 0270. In this case, locate this bracket at half the Dimension A (or at the center of the sensor length).

Step1

Check

position

Step2

Mount

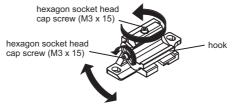
Step3

Align

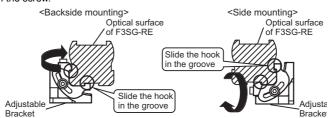
■Mounting and Beam Alignment

Note: Although this chapter uses the figures of the F3SG-RA series safety light curtain, the mounting procedure of the F3SG-RE series is the same as the F3SG-RA series.

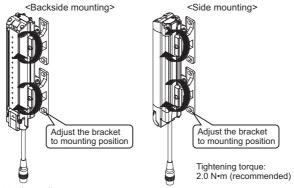
1. Loosen the screws and adjust the angle.



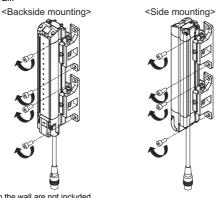
2. Lightely tighten the screw.



3. Adjust the mounting position and secure the bracket.



4. Secure the bracket to the wall.



Screws to mount the brackets to the wall are not included.

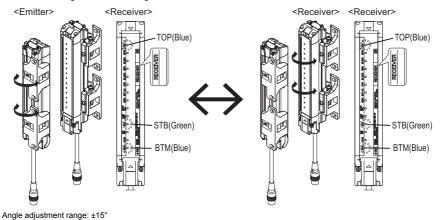
Step1

Check

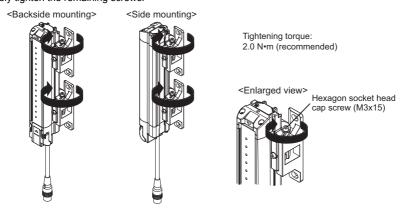
Mount

Align beams

5. Perform beam alignment according to the indicators.

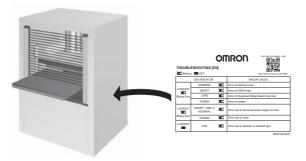


6. Securely tighten the remaining screws.



6. Operation Check

After wiring, mounting and beam alignment are done, check the operation of the F3SG-RE. Attach the included Troubleshooting Guide Sticker nearby, if necessary.





Refer to Safety Light Curtain F3SG-R Series User's Manual or the web site for troubleshooting.



http://www.ia.omron.com/f3sg-r

Suitability for Use

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS. AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

See also Product catalog for Warranty and Limitation of Liability.

OMRON Corporation Industrial Automation Company (Manufacturer)

Shiokoji Horikawa, Shimogyo-ku, Kyoto, 600-8530 JAPAN

Regional Headquarters

■ OMRON EUROPE B.V. (Representative and Importer in EU) Wegalaan 67-69, NL-2132 JD Hoofddorp THE NETHERLANDS Tel: (31)-2356-81-300 / FAX: (31)-2356-81-388

■ OMRON SCIENTIFIC TECHNOLOGIES INC. 6550 Dumbarton Circle Fremont, CA 94555 U.S.A. Tel: (1) 510-608-3400 / Fax: (1) 510-744-1442 ■OMRON ASIA PACIFIC PTE. LTD No. 438A Alexandra Road # 05-05/08 (Lobby 2), Alexandra Technopark, Singapore 119967 Tel: (65) 6835-3011 / Fax: (65) 6835-2711

Contact: www.ia.omron.com

■OMRON (CHINA) CO., LTD. Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road, PuDong New Area, Shanghai, 200120, China Tel: (86) 21-5037-2222 / Fax: (86) 21-5037-2200

In the interest of product improvement, specifications are subject to change without notice.