

Product Discontinuation		Recommended Replacement	
	End Cap F39-CNM		- No recommended replacement
	Interface Unit F39-GIF series		Intelligent Tap F39-SGIT series
	Spatter Protection Cover F39-HG□ series		Spatter Protection Cover F39-HSG series
	Cascading cable F39-JGR 2W series		Cascading cable F39-JGR□ series
	Sensor Mounting Brackets F39-LG□ series		Sensor Mounting Brackets F39-LSG□ series
	Lamp F39-LP		Lamp F39-SGLP

[Final order entry date]

December 18, 2026

[Date of The Last Shipping]

January 19, 2027

[Scheduled date of maintenance close]

December, 2027

[Caution on recommended replacement]

Please refer to the table below for the performance differences between this product and the discontinued model

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics
F39-SGIT	**	--	--	-	--
F39-HSG series	**	--	--	-	-
F39-JGR3W	**	--	--	-	-
F39-JGR12L	**	--	--	-	-
F39-LSGA	**	--	--	--	-
F39-LSGF	**	--	--	-	-
F39-LSGTB-RE/SJ/MS	--	--	--	--	-
F39-SGLP	**	--	--	--	--

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

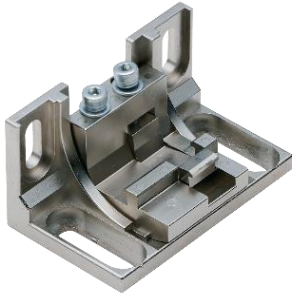
[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
F39-CNM	No recommended replacement
F39-GIF	F39-SGIT-IL3
F39-GIF-1	F39-SGIT-IL3
F39-HGA0200	F39-HSG0200
F39-HGA0280	F39-HSG0280
F39-HGA0360	F39-HSG0360
F39-HGA0440	F39-HSG0440
F39-HGA0520	F39-HSG0560
F39-HGA0550	F39-HSG0560
F39-HGA0600	F39-HSG0640
F39-HGA0680	F39-HSG0720
F39-HGA0760	F39-HSG0800
F39-HGA0840	F39-HSG0880
F39-HGA0920	F39-HSG0960
F39-HGA1000	F39-HSG1040
F39-HGA1080	F39-HSG1120
F39-HGA1160	F39-HSG1200
F39-HGA1240	F39-HSG1280
F39-HGA1320	F39-HSG1360
F39-HGA1400	F39-HSG1440
F39-HGA1480	F39-HSG1520
F39-HGA1560	F39-HSG1600
F39-HGA1640	F39-HSG1680
F39-HGA1720	F39-HSG1760
F39-HGA1800	F39-HSG1840
F39-HGA1880	F39-HSG1920
F39-HGA1960	F39-HSG1920
F39-HGB0180	F39-HSG0200
F39-HGB0260	F39-HSG0280
F39-HGB0340	F39-HSG0360
F39-HGB0420	F39-HSG0440
F39-HGB0500	F39-HSG0560
F39-HGB0580	F39-HSG0640

Product discontinuation	Recommended replacement
F39-HGB0660	F39-HSG0720
F39-HGB0740	F39-HSG0800
F39-HGB0820	F39-HSG0880
F39-HGB0900	F39-HSG0960
F39-HGB0980	F39-HSG1040
F39-HGB1060	F39-HSG1120
F39-HGB1140	F39-HSG1200
F39-HGB1220	F39-HSG1280
F39-HGB1300	F39-HSG1360
F39-HGB1380	F39-HSG1440
F39-HGB1460	F39-HSG1520
F39-HGB1540	F39-HSG1600
F39-HGB1620	F39-HSG1680
F39-HGB1700	F39-HSG1760
F39-HGB1780	F39-HSG1840
F39-HGB1860	F39-HSG1920
F39-HGB1940	F39-HSG1920
F39-JGR2W	F39-JGR3W
F39-JGR2W	F39-JGR12L
F39-LGA	F39-LSGA
F39-LGF	F39-LSGF
F39-LGTB	F39-LSGTB-RE
	F39-LSGTB-SJ
	F39-LSGTB-MS
F39-LGTB-1	F39-LSGTB-RE
	F39-LSGTB-SJ
	F39-LSGTB-MS
F39-LP	F39-SGLP

[Body color]

Product discontinuation Model F39-GIF	Recommendable replacement Model F39-SGIT-IL3
F39-GIF Housing Color: Black 	F39-SGIT-IL3 Housing Color: Black 
Product discontinuation Model F39-HG□ series	Product discontinuation Model F39-HSG series
F39-HGA series Body Color: Black 	F39-HSG series Body Color: Black 
F39-HGB series Body Color: Black 	

Product discontinuation Model F39-JGR2W	Recommendable replacement Model F39-JGR□ series
F39-JGR2W Emitter cable color:Gray Recever cable color :Black 	F39-JGR12L Emitter cable color:Gray Recever cable color:Black  F39-JGR3W Emitter cable color:Gray Recever cable color:Black 
Product discontinuation Model F39-LG□	Recommendable replacement Model F39-LSG□
F39-LGA Body color:silver 	F39-LSGA Body color:silver 

F39-LGF

Body color: silver



F39-LSGF

Body color: silver



F39-LGTB

Body color: silver



F39-LSGTB-RE

Body color: black



F39-LGTB-1

Body color: silver



F39-LSGTB-SJ

Body color: black



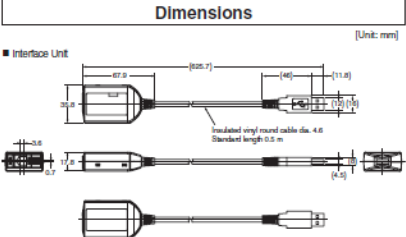
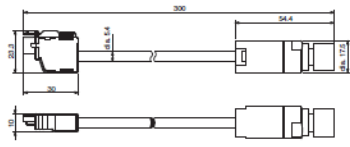
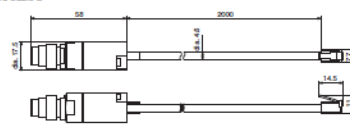
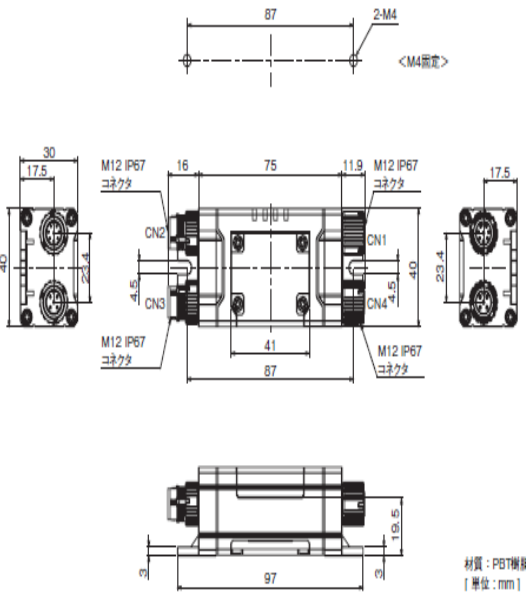
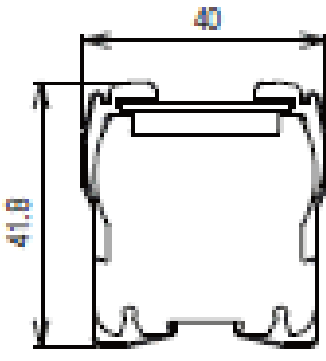
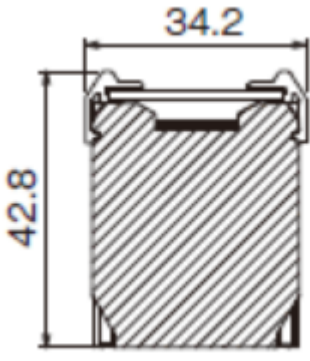
F39-LSGTB-MS

Body color: black



Product discontinuation Model F39-LP	Recommendable replacement Model F39-SGLP
F39-LP Body color: Black  The image shows the F39-LP sensor component, which consists of a white, dome-shaped sensor head mounted on a black base. A small black plastic bracket is shown separately below the main assembly.	F39-SGLP Body color: black  The image shows the F39-SGLP sensor component, which is a more compact version of the F39-LP. It features a white, dome-shaped sensor head mounted on a black base. The base has a label that reads "OMRON F39-SGLP" and "MADE IN JAPAN". A small black plastic bracket is also shown below the main assembly.

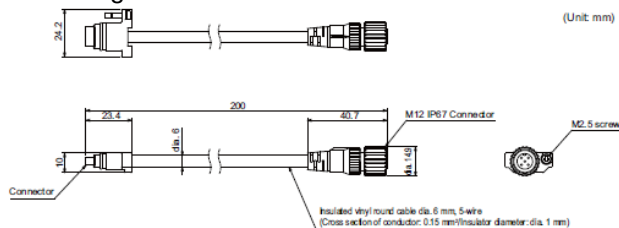
[Dimensions]

Product discontinuation Model F39-GIF	Recommendable replacement Model F39-SGIT-IL3
F39-GIF Dimensions [Unit: mm] ■ Interface Unit  Insulated ring round cable dia. 4.8 Standard length 0.5 m ■ Dedicated Cable 1  ■ Dedicated Cable 2 	F39-SGIT-IL3  材質: PBT樹脂 (ボディ部) [単位: mm]
Product discontinuation Model F39-HG□ series	Recommendable replacement Model F39-HSG series
F39-HGA/ F39-HGB series 	F39-HSG series 

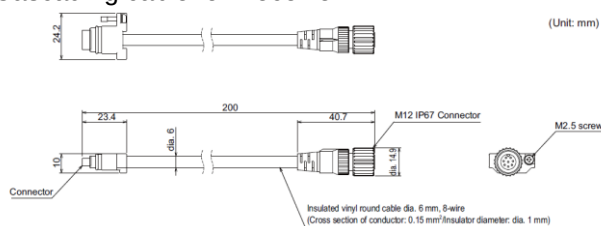
Product discontinuation
Model F39-JGR2W

F39-JGR2W

Cascading cable for Emitter



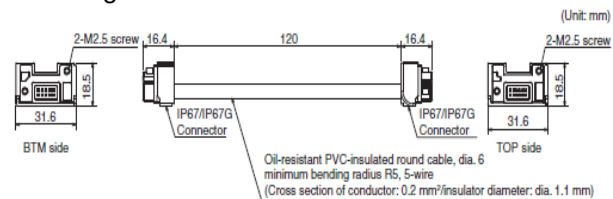
Cascading cable for Receiver



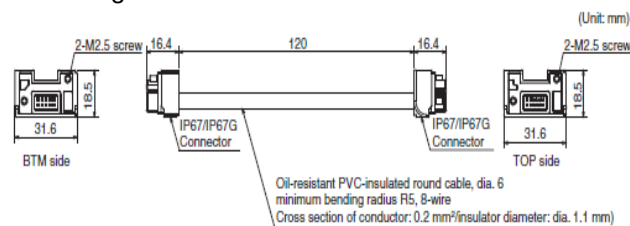
Recommendable replacement
Model F39-JGR□ series

F39-JGR12L

Cascading cable for Emitter

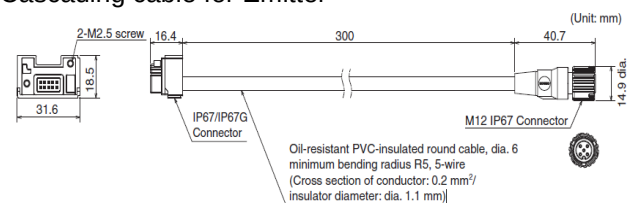


Cascading cable for Receiver

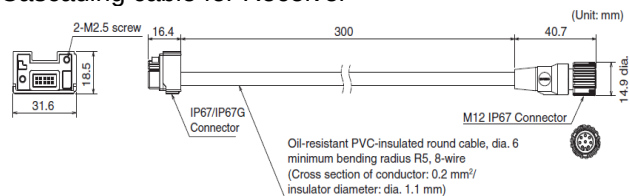


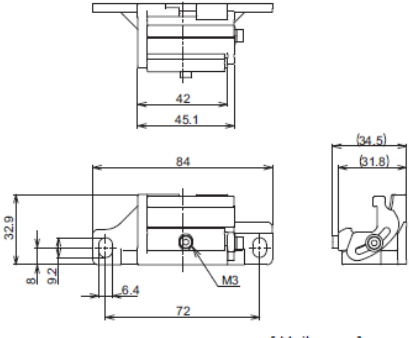
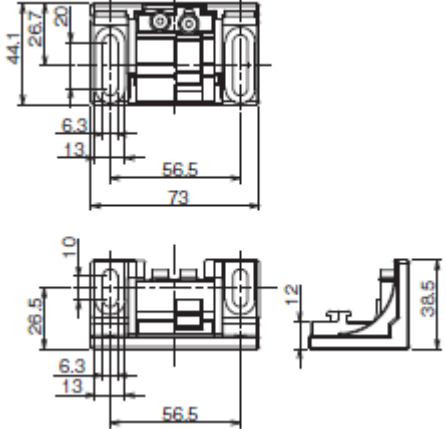
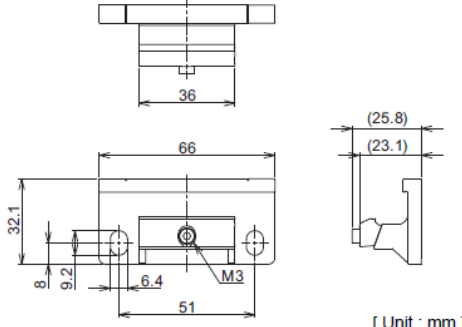
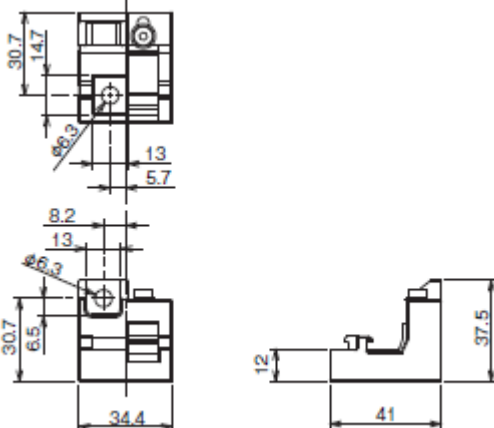
F39-JGR3W

Cascading cable for Emitter

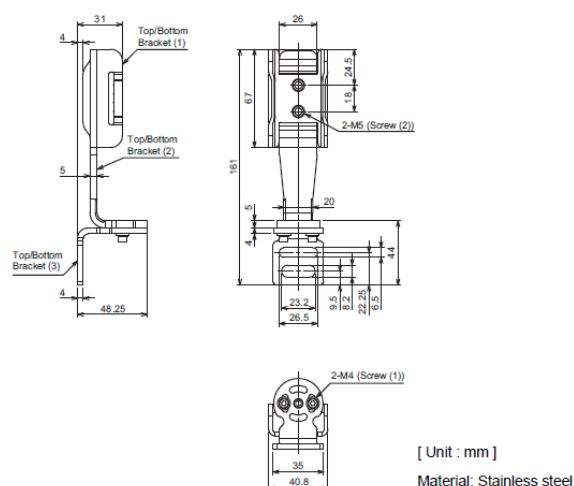


Cascading cable for Receiver

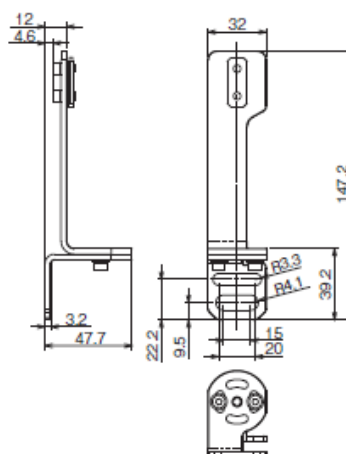


Product discontinuation Model F39-LG□ series	Recommendable replacement Model F39-LSG□ series
F39-LGA  [Unit : mm]	F39-LSGA 
F39-LGF  [Unit : mm]	F39-LSGF 

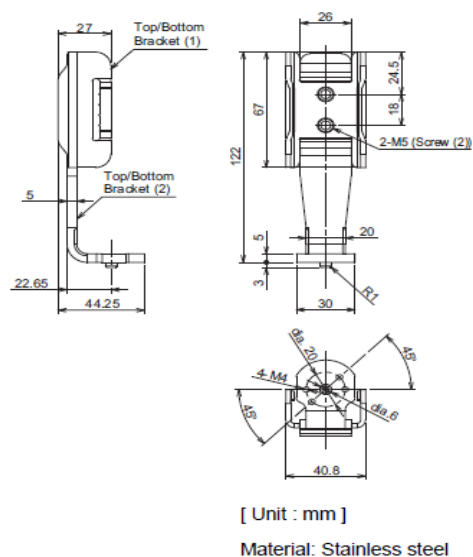
F39-LGTB



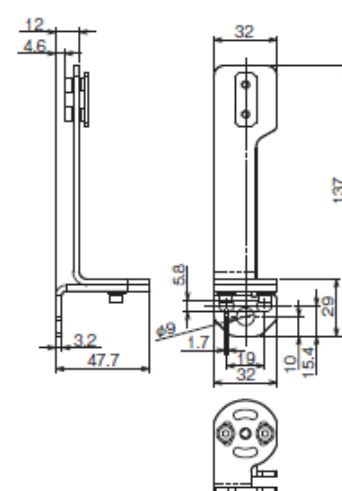
F39-LSGTB-RE



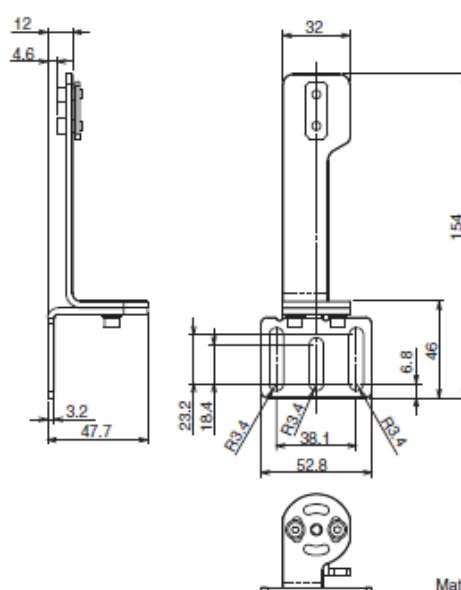
F39-LGTB-1

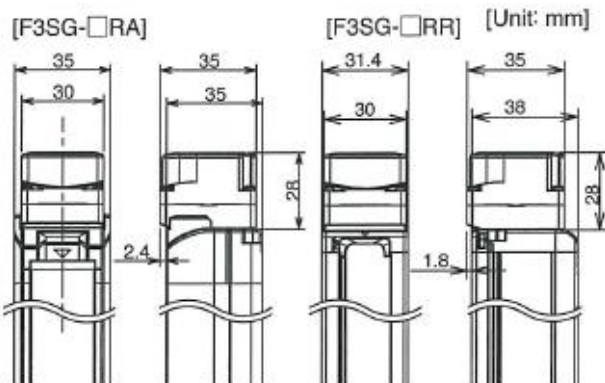
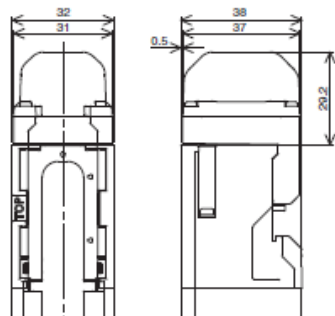
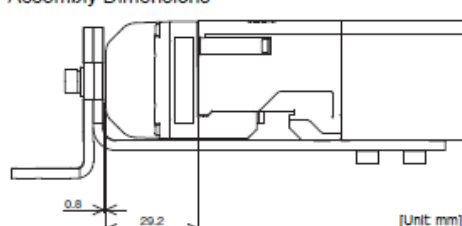


F39-LSGTB-SJ

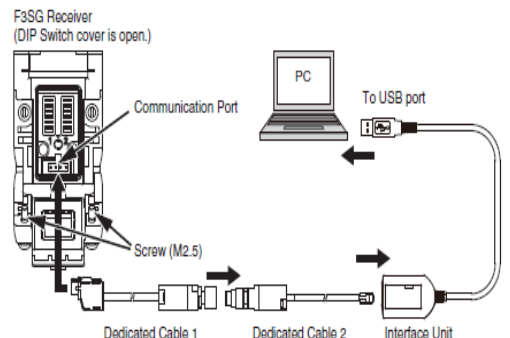
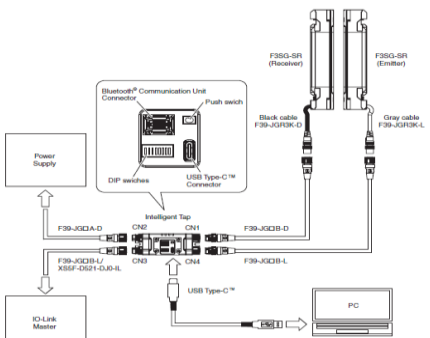


F39-LSGTB-MS



Product discontinuation Model F39-LP	Recommendable replacement Model F39-SGLP
F39-LP [F3SG-□RA] [F3SG-□RR] [Unit: mm] 	F39-SGLP  Material: PC resin (Transparent cover) PBT resin (Base) [Unit: mm] ▪ Assembly Dimensions  [Unit: mm]

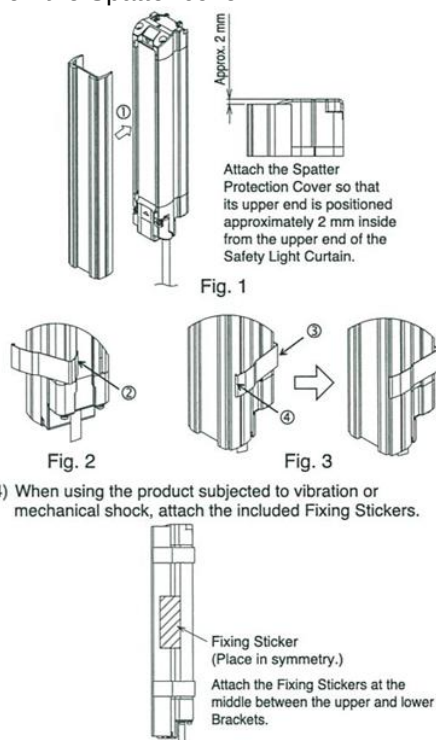
[Wire connection]

Product discontinuation Model F39-GIF	Recommendable replacement Model F39-SGIT-IL3
F39-GIF Connecting the sensor to a PC using the F39-GIF 	F39-SGIT-IL3 . Connecting the sensor to a PC using the F39-SGIT-IL3 

Product discontinuation
Model F39-HG□ series

F39-HGA series

Mounting on the Spatter cover

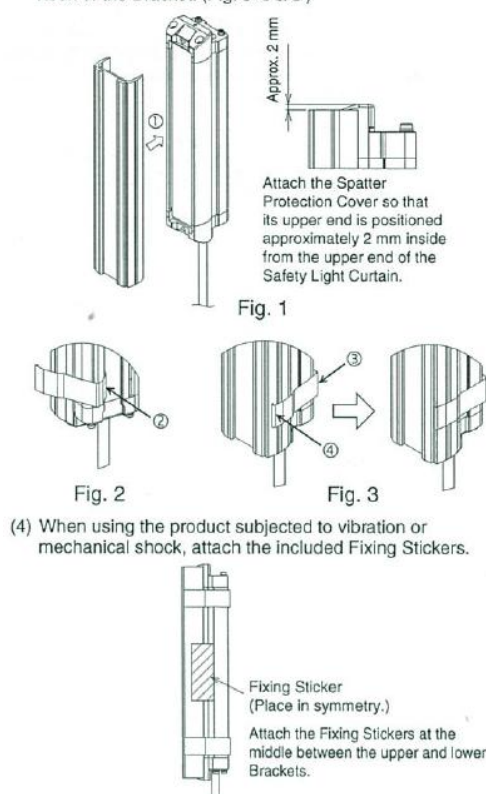


F39-HGB series

Mounting on the Spatter cover

[Installation Procedure]

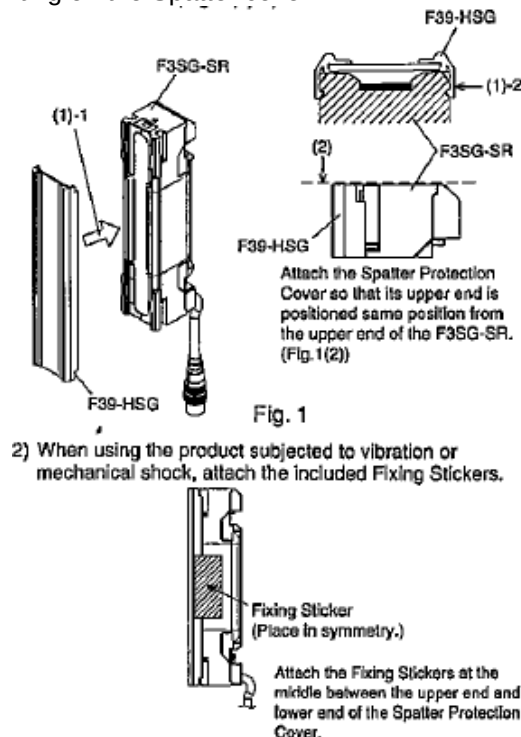
- (1) Attach the Spatter Protection Cover to the Safety Light Curtain. (Fig. 1 ①)
- (2) Hook the Bracket in the groove on the back of the Safety Light Curtain. (Fig. 2 ②)
- (3) Push the Bracket to the Safety Light Curtain so that the corner of the Spatter Protection Cover is grabbed by the hook of the Bracket. (Fig. 3 ③&④)



Recommendable replacement
Model F39-HSG series

F39-HSG series

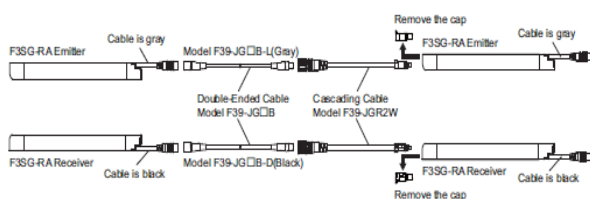
Mounting on the Spatter cover



Product discontinuation
Model F39-JGR2W

F39-JGR2W

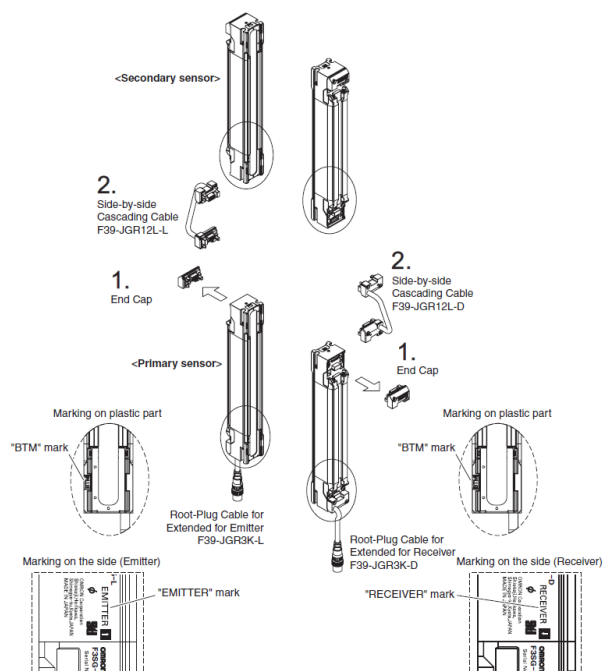
When using the F39-JGR2W Side-by-side Cascading Cable



Recommendable replacement
Model F39-JGR□ series

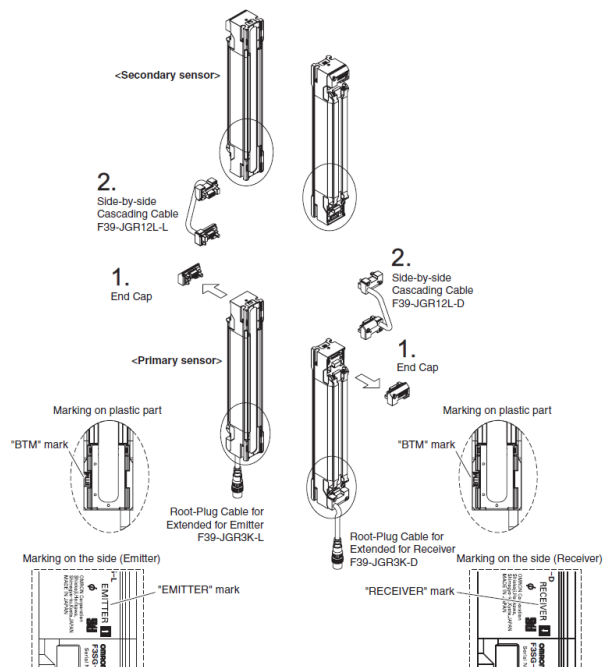
F39-JGR12L

When using the F39-JGR12L Side-by-side Cascading Cable



F39-JGR3W

When using the F39-JGR3W Side-by-side Cascading Cable



Product discontinuation Model F39-LG□ series

F39-LGA

1. Loosen the Screw (1) (hexagon socket head cap screw (M3 x 15)) and change the angle of the Adjustable Bracket (1) according to its mounting direction. (Fig. 1)
2. Loosen the Screw (2) (hexagon socket head cap screw (M3 x 15)). (Fig. 1)

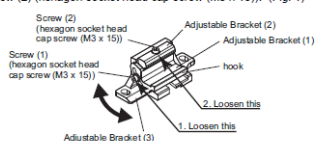


Fig. 1

3. Slide the hooks of the Adjustable Bracket (1) and the Adjustable Bracket (2) in the grooves of the F3SG-R housing. Lightly tighten the Screw (2). (Fig. 2)

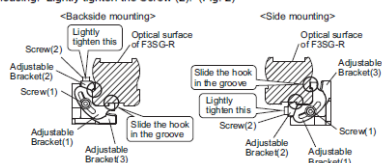


Fig. 2

4. Adjust the Standard Adjustable Bracket to the mounting position of the wall surface. Securely tighten the Screw (2) to fix the Standard Adjustable Bracket to the housing of the F3SG-R. The recommended torque to tighten the Screw (2) is 2.0 N·m. (Fig. 3)

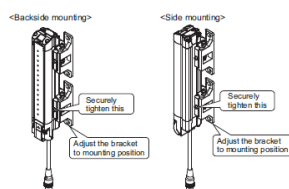


Fig. 3

Tightening screws with a torque that considerably exceeds the recommended torque may cause failure.

5. Securely tighten screws to fix the Standard Adjustable Bracket to the mounting position of the wall surface. (Fig. 4)

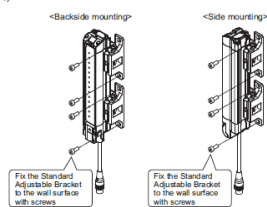


Fig. 4

6. Power the F3SG-R on to perform beam alignment.

Move the emitter and receiver from side to side (Fig. 5) to align them to a center position where the Stable-state indicator (STB, green) of the receiver is illuminated while checking the state of the top and bottom beams with the Top-beam-state indicator (TOP, blue) and Bottom-beam-state indicator (BTM, blue) of the receiver. (Fig. 6)

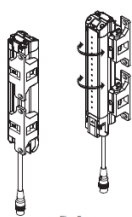


Fig. 5

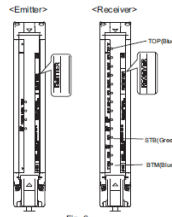


Fig. 6

- The angle adjustment range of the Standard Adjustable Brackets is $\pm 15^\circ$.
- The Stable-state indicator (STB, green) will not be illuminated if the blanking function is used and there is a blocking object in the detection zone. Perform beam alignment again to illuminate the Stable-state indicator (STB, green) after setting the blanking function.
- It is recommended to use the Light Level Monitoring with the Configuration Tool for beam alignment. Refer to Safety Light Curtain Configuration Tool for Model F3SG (SD Manager 2) User's Manual for more information.

7. Securely tighten the Screw (1) to fix the Standard Adjustable Bracket to the housing of the F3SG-R. The recommended torque to tighten the Screw (1) is 2.0 N·m. (Fig. 7)

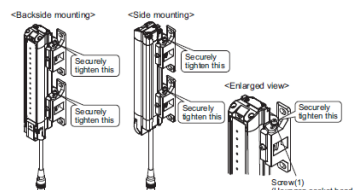


Fig. 7

Recommendable replacement Model F39-LSG□ series

F39-LSGA

1. Securely tighten the screws to fix the Adjustable Side-Mount Bracket to the mounting position of the wall surface. When using more than one Adjustable Side-Mount Brackets, align them in the same line using the sides of the brackets that do not face the wall, before attaching the bracket to the sensor. (Fig. 1)

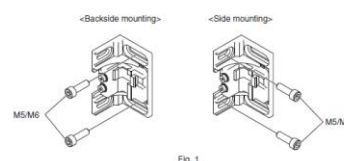


Fig. 1

2. Fully loosen the Mounting Screws (hexagon socket head cap screw (M4x22)). Fit the Brackets (1) and (2) to the backside of the sensor housing so that the groove of the backside of the housing receives the hooks of the Brackets (1) and (2). (Fig. 2)

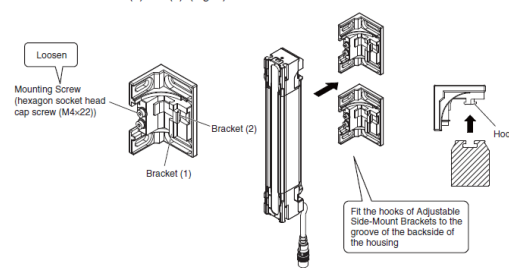


Fig. 2

3. Securely tighten the Mounting Screws to fix the Adjustable Side-Mount Bracket to the yellow area of the sensor housing. The recommended torque to tighten the Mounting Screws is 3.0 N·m. Then loosen the Alignment Screws (hexagon socket head cap screws (M4x22)). (Fig. 3)

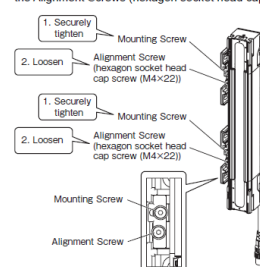


Fig. 3

4. Power the emitter and receiver on to perform beam alignment. For more information on the beam alignment procedure, refer to 5-3-4-5. Mounting IP69K Model.

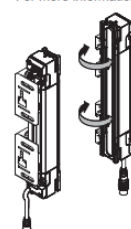


Fig. 4

F3SG-SR, F3SG-SR-K

5. Securely tighten the Alignment Screws to fix the Adjustable Side-Mount Bracket to the sensor housing. The recommended torque to tighten the Alignment Screws is 3.0 N·m. (Fig. 6)

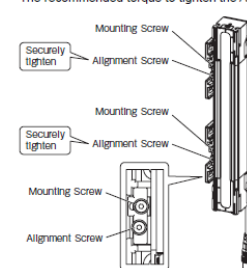
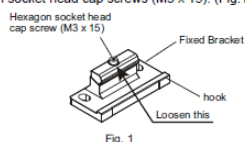


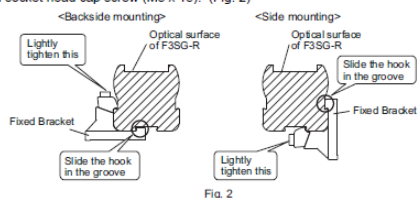
Fig. 6

F39-LGF

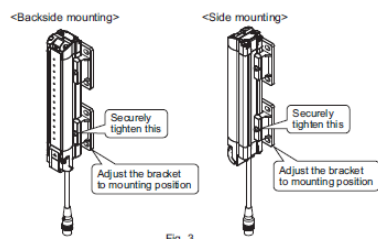
1. Loosen the hexagon socket head cap screws (M3 x 15). (Fig. 1)



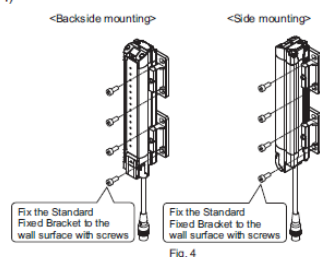
2. Slide the hook of the Fixed Bracket (1) in the groove of the F3SG-R housing. Lightly tighten the hexagon socket head cap screw (M3 x 15). (Fig. 2)



3. Adjust the Standard Fixed Bracket to the mounting position of the wall surface. Securely tighten the hexagon socket head cap screw (M3 x 15) to fix the Standard Fixed Bracket to the housing of the F3SG-R. The recommended torque to tighten the hexagon socket head cap screw (M3 x 15) is 2.0 N·m. (Fig. 3)

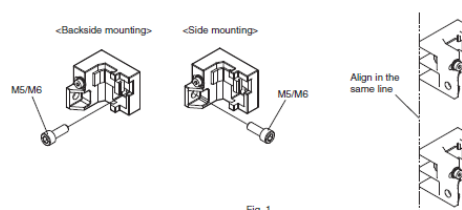


4. Securely tighten the screws to fix the Standard Fixed Bracket to the mounting position of the wall surface. (Fig. 4)

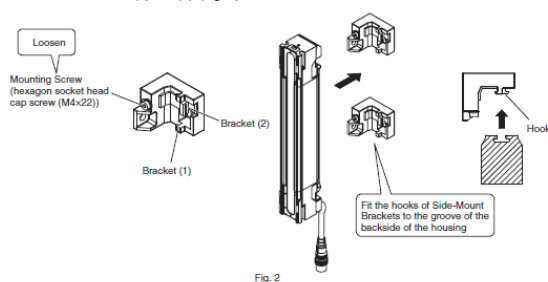


F39-LSGF

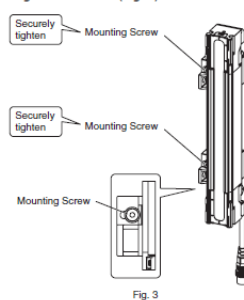
1. Securely tighten the screws to fix the Side-Mount Bracket to the mounting position of the wall surface. When using more than one Side-Mount Brackets, align them in the same line using the sides of the brackets that do not face the wall, before attaching the brackets to the sensor. (Fig. 1)



2. Fully loosen the Mounting Screws (hexagon socket head cap screw (M4 x 22)). Fit the Brackets (1) and (2) to the backside of the sensor housing so that the groove of the backside of the housing receives the hooks of the Brackets (1) and (2). (Fig. 2)



3. Securely tighten the Mounting Screws to fix the Side-Mount Bracket to the yellow area of the sensor housing. The recommended torque to tighten the Mounting Screws is 3.0 N·m. Then loosen the Alignment Screws (Fig. 3)



F39-LGTB/LGTB-1

1. Loosen the Screw (1) (hexagon socket head cap screw (M4×10)) of Top/Bottom Bracket (3) and change the angle of the Top/Bottom Bracket (3) according to its mounting direction. Then loosen the Screw (2) (low head hexagon socket head cap screw (M5×10)) of Top/Bottom Bracket (2). (Fig. 1)

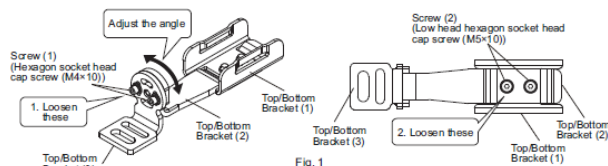


Fig. 1



The width across flat of the hexagon socket of the Screws (1) and (2) is S=3.

2. Slide the Top/Bottom Bracket (1) in the grooves of the F3SG-R housing. Adjust the Top/Bottom Adjustable Bracket to the mounting position of the wall surface. Make sure to position the whole body of the Top/Bottom Bracket (1) within the yellow area of the housing. Securely tighten the Screw (2) to fix the Top/Bottom Adjustable Bracket to the housing of the F3SG-R. The recommended torque to tighten the Screw (2) is 3.0 N·m. (Fig. 2)

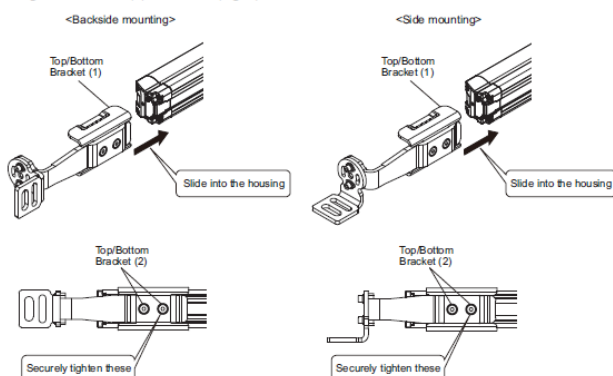


Fig. 2

3. Securely tighten screws to fix the Top/Bottom Adjustable Bracket to the mounting position of the wall surface. (Fig. 3)

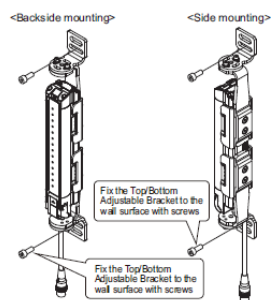


Fig. 3



One screw at upper and lower positions, respectively, is sufficient to fix the F3SG-R to the wall surface. Screws to mount the brackets to the wall are not included.

4. Power the F3SG-R on to perform beam alignment.

Move the emitter and receiver from side to side (Fig. 4) to align them to a center position where the Stable-state indicator (STB, green) of the receiver is illuminated while checking the state of the top and bottom beams with the Top-beam-state indicator (TOP, blue) and Bottom-beam-state indicator (BTM, blue) of the receiver. (Fig. 5)

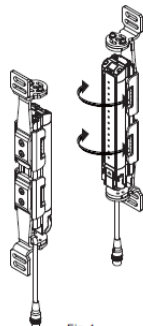


Fig. 4

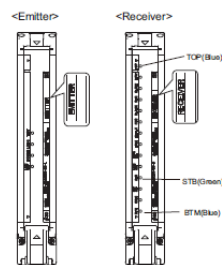


Fig. 5

F39-LSGTB-RE/SJ/MS

1. Loosen the Alignment Screws (hexagon socket head cap screw (M4×7)) of the Top/Bottom Bracket (3) and change the angle of the Top/Bottom Bracket (3) according to its mounting direction. Then loosen the Mounting Screws (low head hexagon socket head cap screw (M4×7)) of Top/Bottom Bracket (2). (Fig. 1)

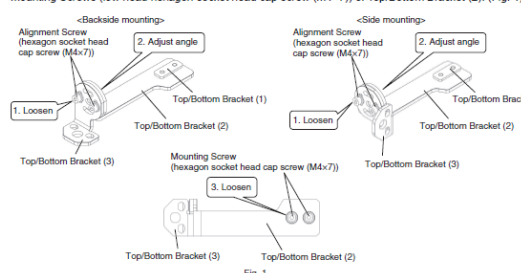


Fig. 1

2. Slide the Top/Bottom Bracket (1) in the grooves of the sensor housing. Adjust the Top/Bottom Bracket to the mounting position of the wall surface. Make sure to contact the whole body of the Top/Bottom Bracket (1) with the groove of the yellow area of the housing. Securely tighten the Mounting Screws to fix the Top/Bottom Bracket to the housing of the sensor. The recommended torque to tighten the Mounting Screws of the Top/Bottom Bracket is 3.0 N·m. (Fig. 2)

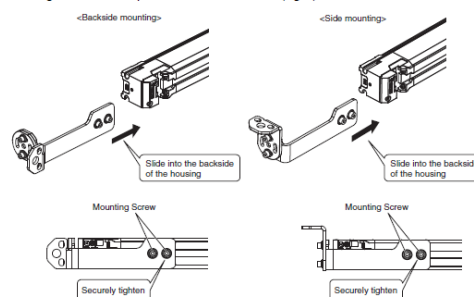


Fig. 2



Tightening screws with a torque that considerably exceeds the recommended torque may cause failure.

3. Securely tighten screws to fix the Side-Mount Bracket to the mounting position of the wall surface. When using more than one Side-Mount Brackets, align them in the same line using the sides of the brackets that do not face the wall, before attaching the brackets to the sensor. (Fig. 3)

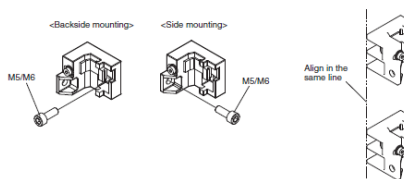


Fig. 3

4. Fully loosen the Mounting Screw (hexagon socket head cap screw (M4×22)) of the Side-Mount Bracket. (Fig. 4) Then slide the hooks of the Brackets (1) and (2) in the groove of the backside of the sensor housing. (Fig. 5)

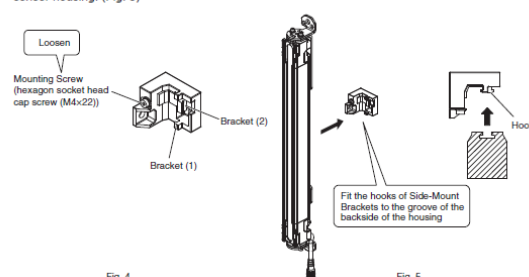


Fig. 4

Fig. 5

5. Securely tighten the Mounting Screw to fix the Side-Mount Bracket to the sensor housing. The recommended torque to tighten the Mounting Screw of the Side-Mount Bracket is 3.0 N·m. (Fig. 6)

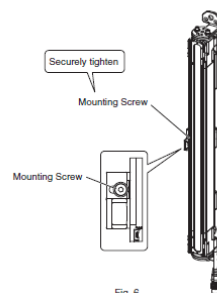


Fig. 6

5. Securely tighten the Screw (1) to fix the Top/Bottom Adjustable Bracket to the housing of the F3SG-R. The recommended torque to tighten the Screw (1) is 3.0 N·m. (Fig. 6)

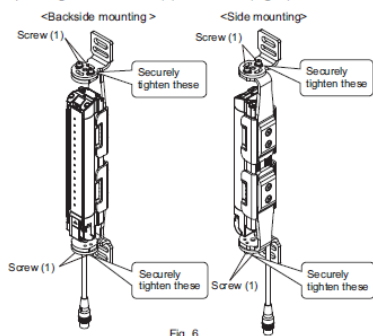


Fig. 6

6. Securely tighten screws to fix the Top/Bottom Bracket to the mounting position of the wall surface. (Fig.7)

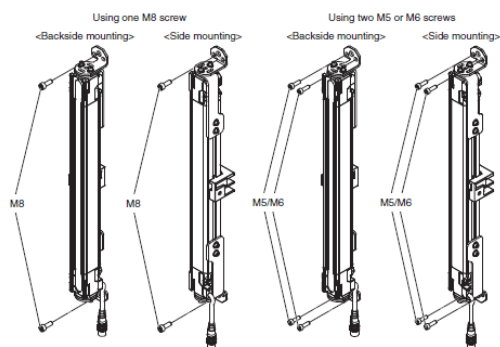


Fig. 7

⚠ CHECK! ⚠
Screws to mount the brackets to the wall are not included.

7. Securely tighten the Alignment Screw of the Top/Bottom Bracket to fix the bracket to the sensor housing. The recommended torque to tighten the Alignment Screw is 3.0 N·m. (Fig. 8)

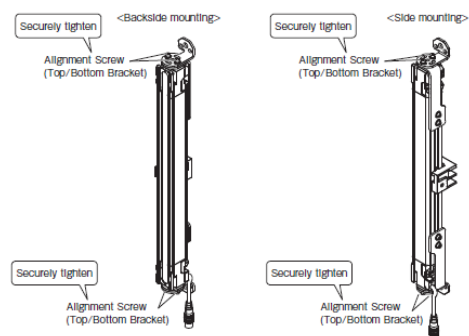
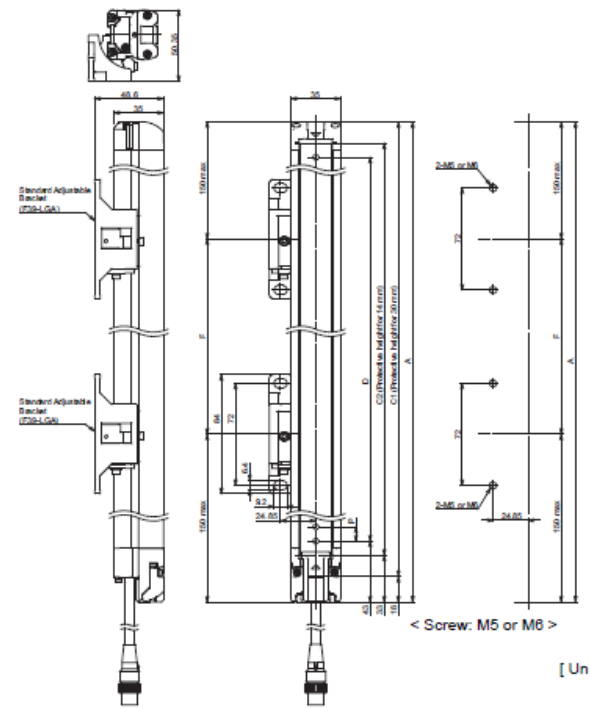
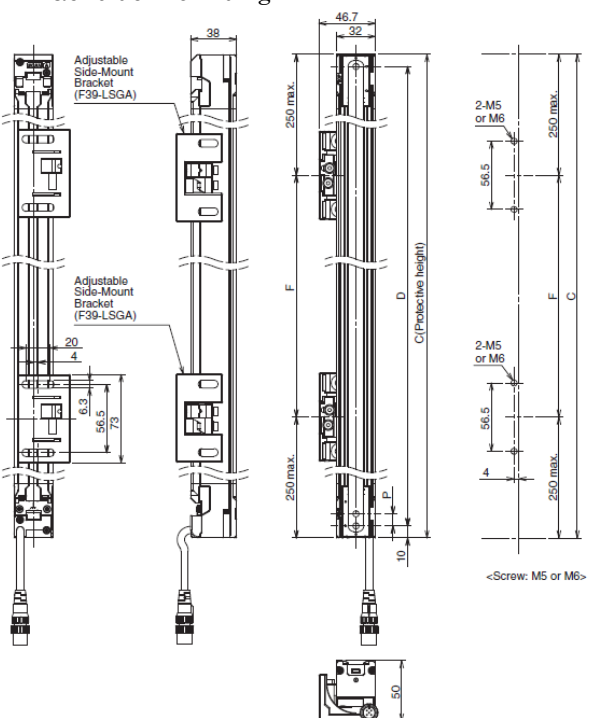
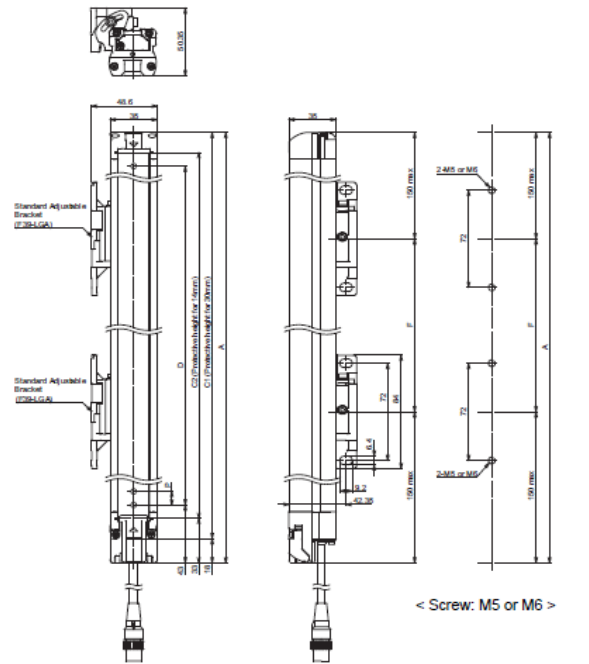
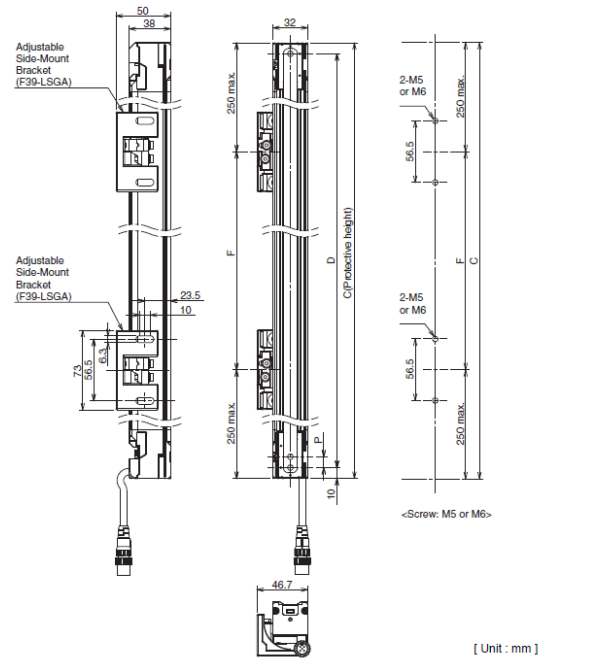
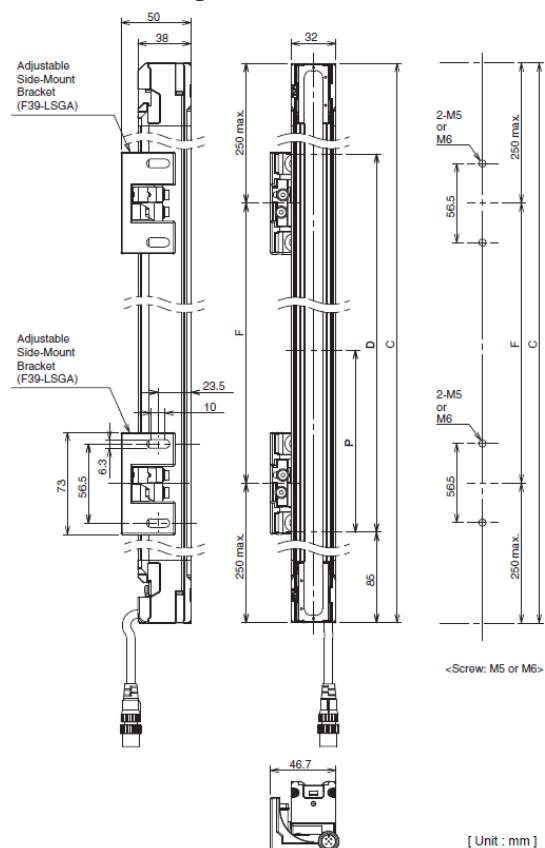
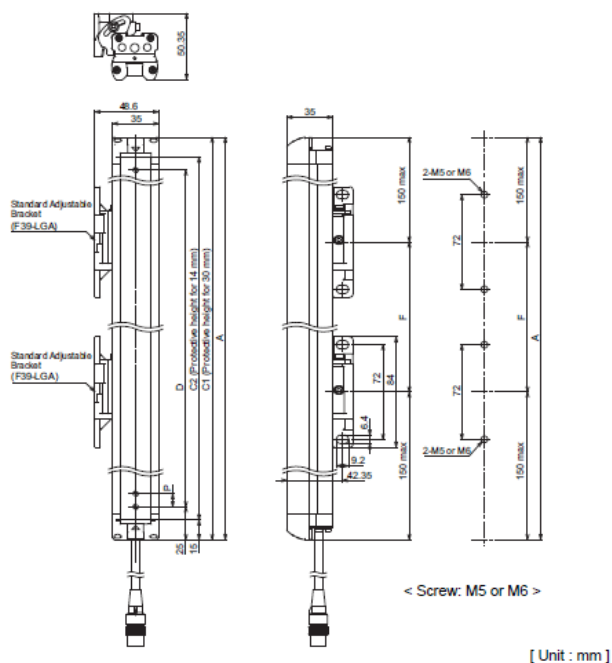
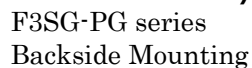


Fig. 8

Product discontinuation Model F39-LP	Recommendable replacement Model F39-LGSP
F39-LP 1. Remove the Cap (terminal connector) from the socket of the receiver body of the Safety Light Curtain. Then insert the connector of the product to the socket. 2. Securely tighten the screw (M2.5, recommended torque: 0.35N•m). [Top view] [Bottom view] Screw (M2.5) DIP Switch (Factory default settings) [F3SG-□RA Receiver] [F3SG-□RR Receiver] Screw (M2.5) Screw (M2.5) Lamp Spacer Cap Safety Light Curtain Cable color: Black For the F3SG-RA, attach the Spacer between the Bluetooth Communication Unit and the Safety Light Curtain and fix these with the screw (M2.5). The Spacer can prevent wires and others from getting caught.	F39-LGSP 1. Remove the end cap attached to the TOP end of F3SG-SR/PG, and attach the lamp. If the F3SG-SR is cascaded, attach the lamp to the secondary sensor farthest from the power supply. 2. Securely tighten the screw (M2.5, recommended torque: 0.35N•m). Lamp Screw (M2.5) End cap Safety Light Curtain

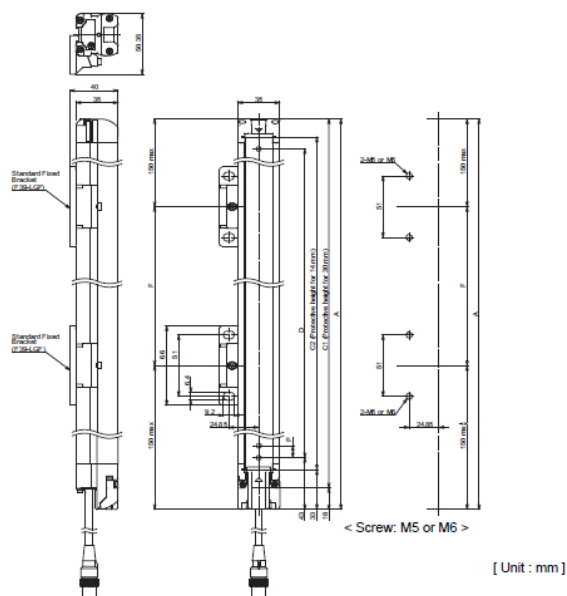
[Mounting dimensions]

Product discontinuation Model F39-LG□ series	Recommendable replacement Model F39-LSG□ series
Mounted with Standard Fixed Brackets (F39-LGA) F3SG-RA series Backside Mounting  [Unit]	Mounted with Adjustable Side-Mount Brackets (Intermediate Brackets) (F39-LSGA) F3SG-SR series Backside Mounting  [Unit : mm]
Side Mounting  [Unit : mm]	Side Mounting  [Unit : mm]



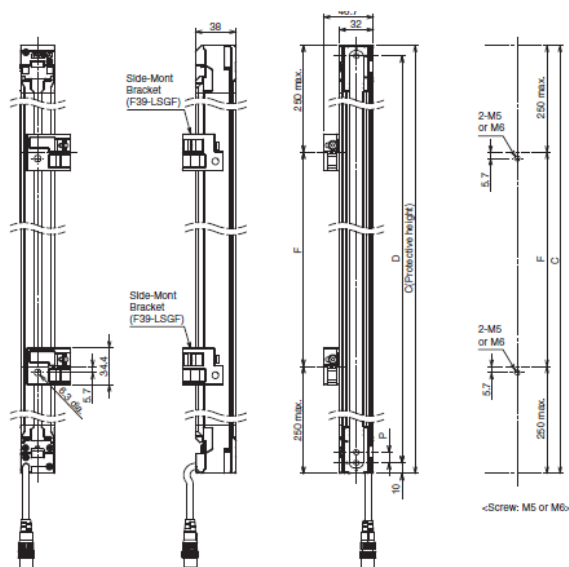
Mounted with Standard Fixed Brackets (F39-LGF)

F3SG-RA series
Backside Mounting

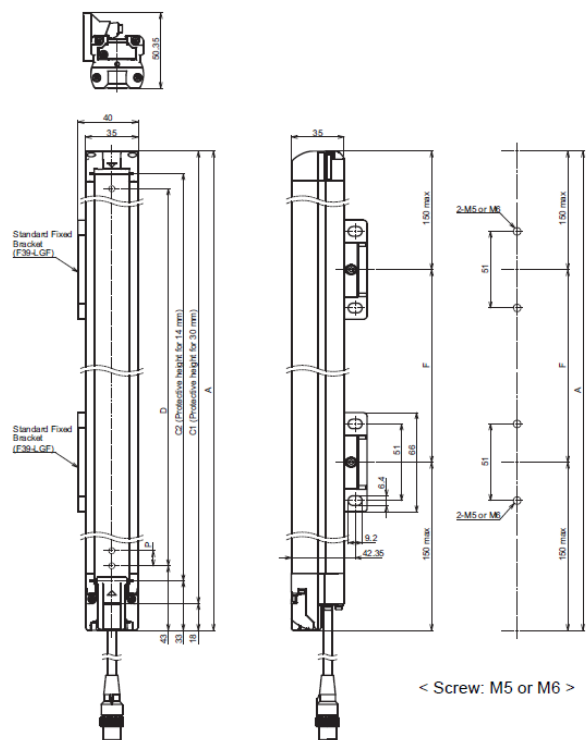


Mounted with Side-Mount Brackets (Intermediate Brackets) (F39-LSGF)

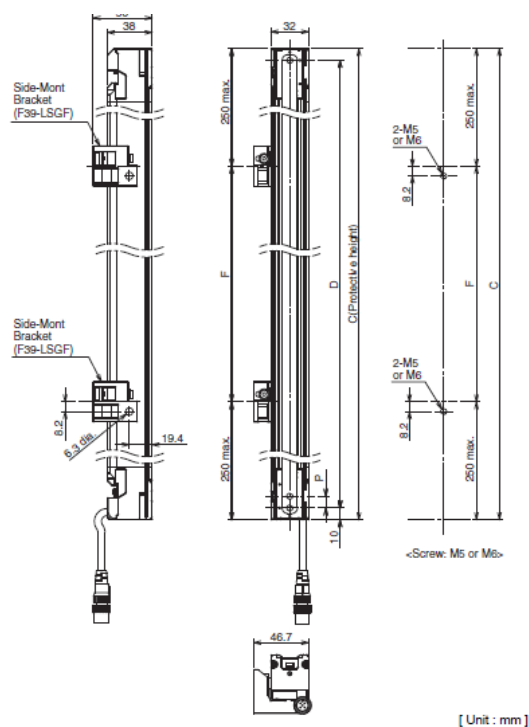
F3SG-SR series
Backside Mounting



Side Mounting

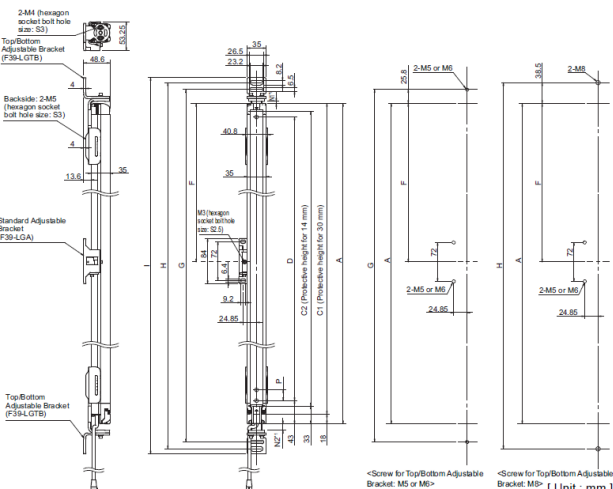


Side Mounting



Mounted with Top/Bottom Adjustable Brackets(F39-LGTB)and Standard Adjustable Brackets (F39-LGA)

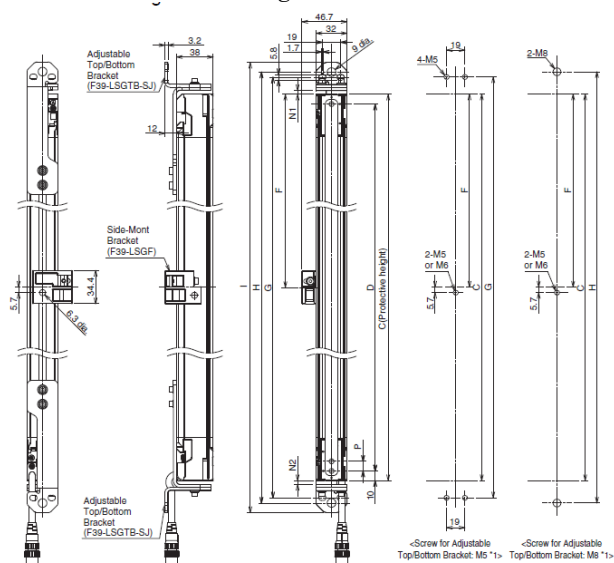
F3SG-RA series
Backside Mounting



<Screw for Top/Bottom Adjustable Bracket: M5 or M6> <Screw for Top/Bottom Adjustable Bracket: M6> [Unit : mm]

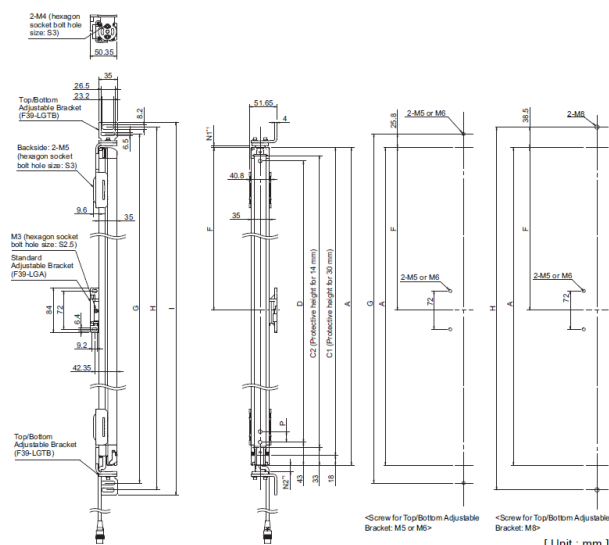
Mounted with Adjustable Top/Bottom Brackets (F3SJ, F3SN Adapter) (F39-LSGTB-SJ) and Side-Mount Brackets (Intermediate Brackets) (F39-LSGF)

F3SG-SR series
Backside Mounting



<Screw for Adjustable
Top/Bottom Bracket: M5 *1> <Screw for Adjustable
Top/Bottom Bracket: M8 *1>

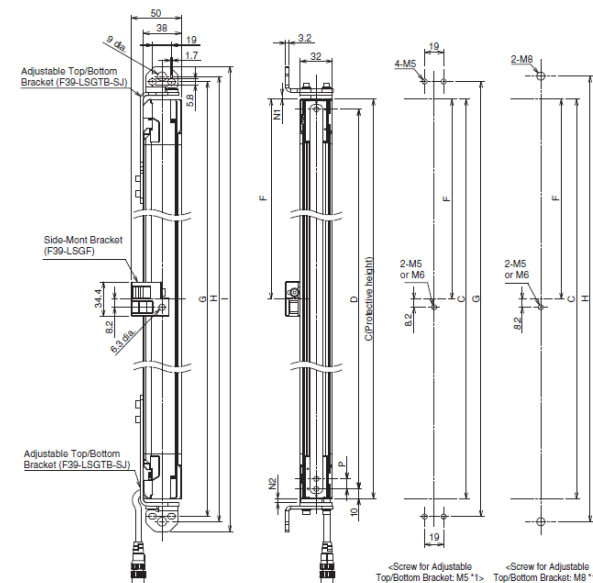
Side Mounting



<Screw for Top/Bottom Adjustable Bracket: M5 or M6>

[Unit : mm]

Side Mounting

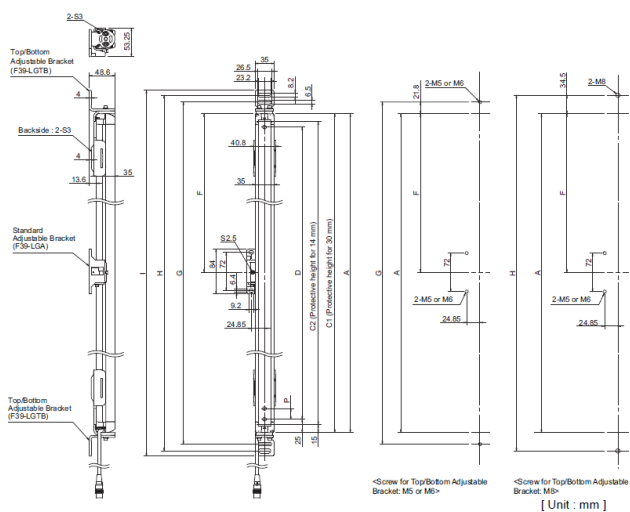


<Screw for Adjustable
Top/Bottom Bracket: M5 *1> <Screw for Adjustable
Top/Bottom Bracket: M8 *1>

<Screw for Adjustable
Top/Bottom Bracket: M8 *1>

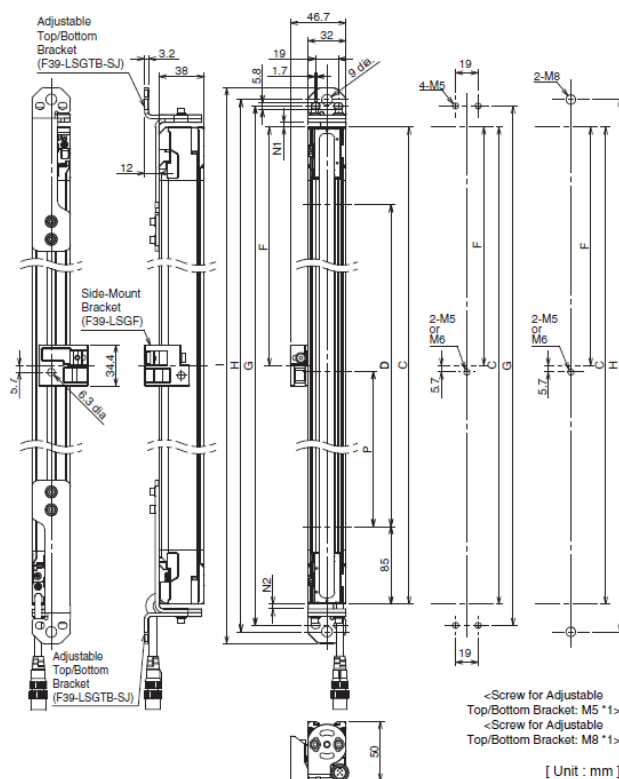
Mounted with Top/Bottom Adjustable Brackets(F39-LGTB)and Standard Adjustable Brackets (F39-LGA)

F3SG-RE series
Backside Mounting

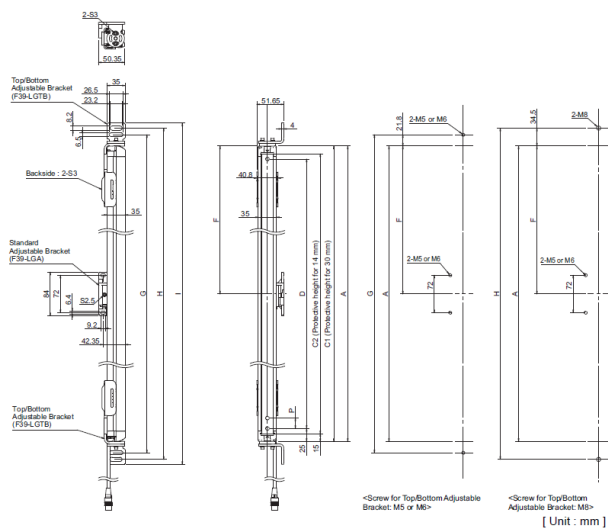


Mounted with Adjustable Top/Bottom Brackets (F3SJ, F3SN Adapter) (F39-LSGTB-SJ) and Side-Mount Brackets (Intermediate Brackets) (F39-LSGF)

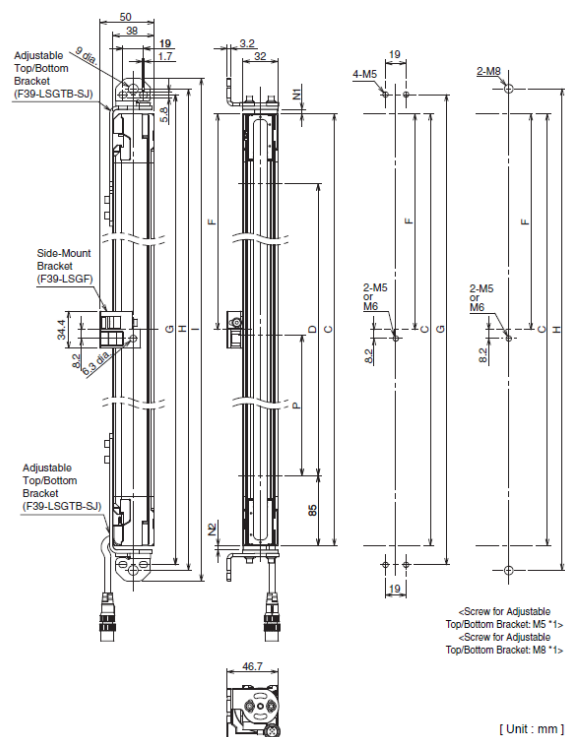
F3SG-PG series
Backside Mounting



Side Mounting



Side Mounting



[Characteristics]

Item	Product discontinuation Model F39-GIF	Recommendable replacement Model F39-SGIT-IL3
Applicable Sensor	F3SG-□RA Series Safety Light Curtain	F3SG-SR Series
Power Supply Voltage (Vs)	24VDC±20%, ripple p-p 10% max. (shares sensor's power supply)	SELV/PELV 24 VDC±20%, ripple p-p 10% max.
Current Consumption	Side of USB: 55mA max Side of Sensor: 20mA max	85mA max. (When connecting 24 VDC power supply and IO-Link Master)
Ambient Temperature	Operating : -10 to 50°C、 Storage: 25 to 70°C (non-icing and non-condensing)	Operating: -30 to 55 °C (non-icing), Storage: -30 to 70 °C
Ambient Humidity	Operating : 35% to 85%、 Storage: 35% to 95% (non-condensing)	Operating: 35% to 85% (non-condensing), Storage: 35% to 85%
Insulation Resistance	20MΩ min	20 M_ or higher (500 VDC megger)
Withstand Voltage	AC1000V 50/60Hz 1min	1,000 VAC, 50/60 Hz (1 min)
Protective circuit	Nothing	Output short-circuit protection, Output reverse polarity protection
Vibration resistance	Nothing	Class 3M4(IEC TR 60721-4-3) Operation limit:5~150Hz, Multiple amplitude of 7 mm, Acceleration of 1G, 10 sweeps each in X, Y, and Z directions (no delay at resonant frequencies
Shock resistance	Nothing	Class 3M4(IEC TR 60721-4-3) Operation limit: Acceleration of 15G, Pulse duration of 6ms, 100 shocks for each in X, Y, and Z directions (600 shocks in total)

Item	Product discontinuation Model F39-LP	Recommendable replacement Model F39-SGLP
Applicable Sensor	F3SG-□RA/ □RE Series Safety Light Curtain	F3SG-SR/PG Series
LED Light Color	Red/Green/Orange	Red/Green/Orange
Power Supply Voltage	24VDC±20%, ripple p-p 10% max. (shares sensor's power supply)	24 VDC±20%, ripple p-p 10% max. (shares sensor's power supply)
Current Consumption	25mA max. (Shares sensors power supply.)	40 mA max. (Shares sensor's power supply.)
Ambient Temperature	Operating : -10 to 55°C、 Storage: -25 to 70°C (non-icing and non-condensing)	Operating: -30 to 55°C, Storage: -30 to 70°C (non-icing and non-condensing)
Ambient Humidity	Operating : 35% to 85%、 Storage: 35% to 95% (non-condensing)	Operating: 35% to 85%, Storage: 35% to 95% (non-condensing)
Vibration Resistance	10 to 55Hz, Multiple amplitude of 0.7mm, 20 sweeps for all 3 axes	Class 3M4(IEC TR 60721-4-3) Operation limit:5~150Hz, Multiple amplitude of 7 mm, Acceleration of 1G, 10 sweeps each in X, Y, and Z directions (no delay at resonant frequencies)
Shock Resistance	100m/s ² , 1000 shocks for all 3 axes	Class 3M4(IEC TR 60721-4-3) Operation limit: Acceleration of 15G, Pulse duration of 6ms, 100 shocks for each in X, Y, and Z directions (600 shocks in total)
Degree of Protection	IP65, IP67(when attached to F3SG)	IP65, IP67 (When attached to F3SG-SR/PG)
Type of Connection	Connectable to terminal connector of F3SG-RA or F3SG-RR	Connectable to terminal connector of F3SGSR/PG
Material	Lighting element: PC, Other body parts: PBT	Lighting element: PC, Other body parts: PBT
Weight	45g (when packaged)	70g (when packaged)

Specifications and prices in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products. The information on the recommended substitute products from other companies is what our company is aware of as of the issuance of this notice. Regarding the end of production timing for the recommended alternative product, the possibility of continuing supply, the specifications, compatibility, and others, as well as other details, please inquire with your business partner and make your own decision at your company on whether to adopt the recommended alternative product.