









F3SG-SR/PG SERIES



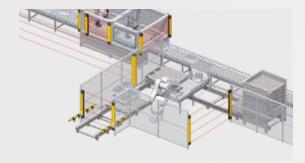
## Redefining safety at manufacturing sites

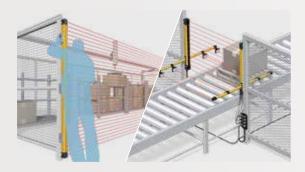
We developed our F3SG-SR/PG Series light curtain to help manufacturers overcome the challenges of globalization and flexible production. This series offers a complete lineup of products that comply with global safety standards and provide a wide range of functionality across all design and maintenance needs, enabling manufacturers to construct state-of-the-art safety systems.





## Build flexible safety systems









#### Design

Easy design of	
line safety .	Page 4
Flexible design	an for
-	•
equipment .	Page 6

## Set-up

Simple beam adjustment Page	10
Easy installation and angle adjustment Page	11
Various options to reduce wiring Page	12

## Operation

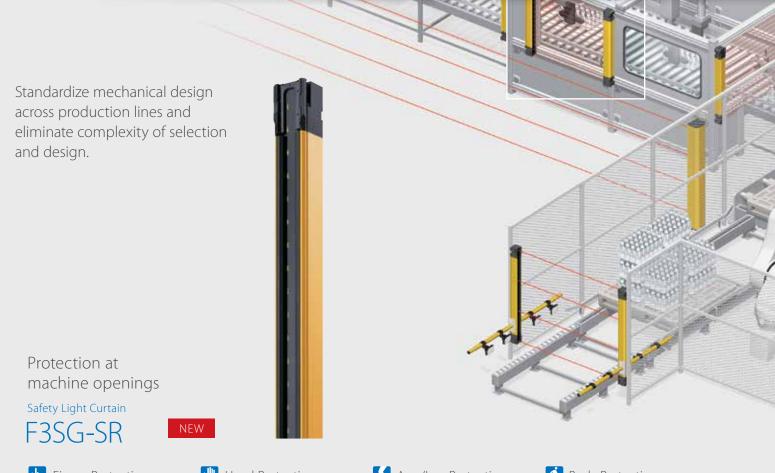
Reduction in unwante	d	
machine stoppages	Page	14

#### Maintenance

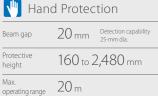
Maintenance special skills r	Page	16
Quick mainte through ICT	······ Page	17

## Easy design of line safety

One series covers all protection applications—from machine openings to perimeter protection



Fing	er Prote	ection		
Beam gap	10 mm	Detection capability 14-mm dia.		
Protective height	160 to 2,000 mm			
Max.	10 m			



Arm/Leg Protection							
Beam gap	40 mm	Detection capability 45-mm dia.					
Protective height	240 to	1,520 mm					
Max. operating range	20 m						

<b>☆</b> Body	Protect	ion	
Beam gap	80 mm	Detection capability 85-mm dia.	
Protective height	280 to 920 mm		
Max. operating range	20 m		

#### Common accessories including cables and brackets\*

The light curtains share common accessories for ease of design and retrofitting of production lines.



Y-Joint Plug/ Socket Connector F39-GCNY2





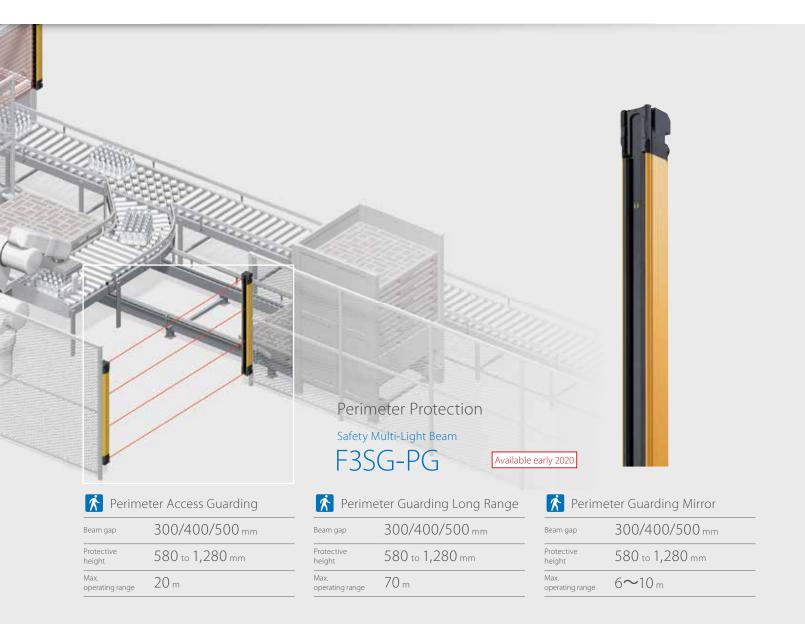
Floor Mount Column F39-ST Available early 2020

Mount-Column
Adjustable Base
F39-STB
Available early 2020

Mirror Column (for F3SG-SR Safety Light Curtain) F39-SML

Available early 2020

<sup>\*1</sup> Except for some accessories. See page 37 and following for details.



#### Helps build safety systems for machines all over the world

Mirror Column (for F3SG-PG Safety Multi-Light Beam) F39-PML Available early 2020

Certification to worldwide safety standards\*.

\* We will apply for GB, TS Mark, S Mark, and KCs Mark.







PNP/NPN selection for global compatibility



IP67G water and oil resistance and IP69K\*.

Available early 2020



## Flexible design to fit your equipment

Broad industry lineup to meet your needs for flexible production line design

#### Long operating range thanks to unique optical design

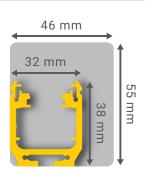
The long-distance sensing capability enables reliable detection even in harsh environments.



#### Omron's unique compact design

The F3SG-SR Safety Light Curtain and F3SG-PG Safety Multi-Light beam share the same compact housing, making the mechanical design more flexible.



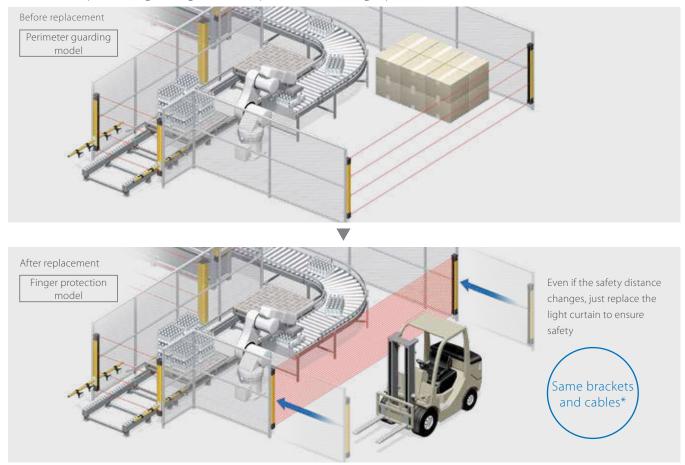




#### Easy line layout changes

Simply replace a light curtain using the same accessories because the F3SG-SR Series and F3SG-PG Series share the same housing. There is no need to install different accessories for the new light curtain.

Example : In order to secure a larger working space by installing the light curtain closer to the machine, the perimeter guarding model is replaced with the finger protection model



Just replace the light curtain with the same protective height\*

F3SG-SR Series lir	neup	)															• S1	tandar	rd mo	del C	) Flexi	ble he	eight n	nodel	(Incre	ments	of 40	mm)
Protective height (mm)	160	200	240	280	320	360	400	440	480	520	560	580	600	640	680	720	760	800	840	880	920	960	980	1000	1040	1120	1200	1280
Finger Protection	•	0	•	0	•	0	•	0	•	0	•		0	•	0	0	0	•	$\overline{}$	0	0	0		•			•	_
Hand Protection	•	0	•	0	•	0	•	0	•	0	•		0	•	0	•	0	•	0	•	0	•		0	•	•	•	•
Arm/Leg Protection			•				•				•					•				•							•	
Body Protection				•				•					•				•				•							
Protective height (mm)	1360	1400	1440	1520	1600	1680	1760	1800	1840	1920	2000	2080	2280	2480	l													
Finger Protection		•			•			•			•																	
Hand Protection			•	•	•	•				•		•	•	•														
Arm/Leg Protection				•																								
Body Protection																												
F3SG-PG Series li	neui	0																										
Protective height (mm)	160	200	240	280	320	360	400	440	480	520	560	580	600	640	680	720	760	800	840	880	920	960	980	1000	1040	1120	1200	1280
Perimeter Access Guarding												•								•			•					•
Perimeter Guarding Long Range												•								•			•					

<sup>\*</sup> Except for some models and accessories. See page 37 and following for details.

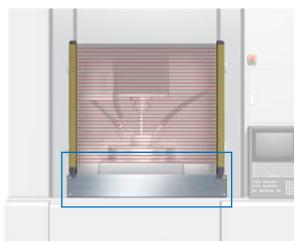
## Flexible design to fit your equipment

#### Perfect fit

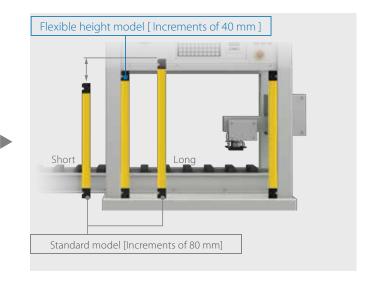
Protective heights are available in increments of 40 mm up to 1,000 mm\*. The perfect protective height for any area ensures safety and eliminates the need for additional protective measures.

#### Problem

The light curtain that does not completely fit the protected area requires additional measures (e.g., adding a protection cover).



The flexible height model requires no additional guarding saving installing time and money.

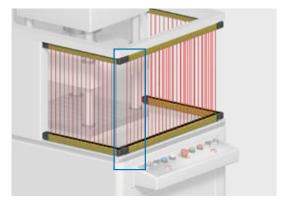


#### No dead space

The F3SG-SR Series eliminates dead space even when light curtains are series-connected or U-shape connected.

#### Problem

Dead space exists at the joint.



<sup>\*</sup> Except for F3SG-SR Finger Protection models.

#### F3SG-SR\*

Eliminates dead space and ensures safety.



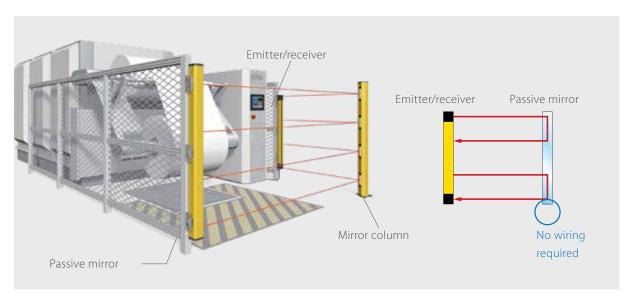
F3SG-SR\*

<sup>\*</sup> F3SG-SR Finger and Hand Protection models only.



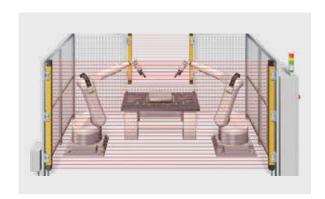
#### Reduced wiring for flexible design

To protect the perimeter of equipment, the F3SG-PG series offers the emitter/receiver in one housing for a reduction in wiring and installation time.



#### Two different synchronization systems

Choose from two different methods of synchronization between the emitter and receiver to suit your equipment.

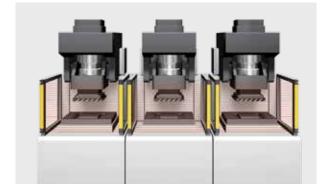


#### Optical synchronization

No sync lines are required. Connect emitter only to power supply. Mutual interference

prevention: Up to 2 sets





Wired synchronization Mutual interference prevention: Up to 3 sets



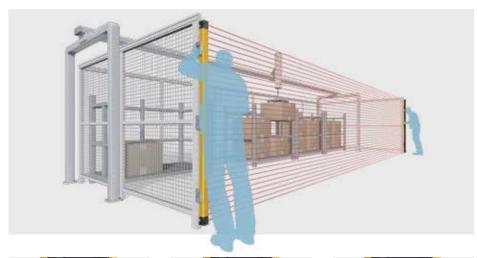
## Quick and easy beam adjustment

Color indication of beam status simplifies adjustment and saves time

Area Beam Indicator (ABI) for an at-a-glance check of beam status

ON/OFF status of the light curtain plus low light intensity indicators provide immediate beam status.









Stable state Green: Safety outputs ON The beams are unblocked.



Safety outputs ON

Low light intensity

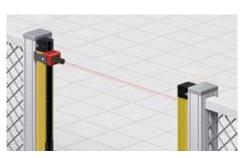
Adjust beams or check if the light curtain is dirty.



Beams blocked Red: Safety outputs OFF\*

The beams in the area are blocked.

The images of indicator illumination may vary somewhat from the actual products.



Laser Alignment Pointer F39-PTG



Assists with beam adjustment. Easy-to-see laser beam shows the sensor orientation.

<sup>\*</sup> The indicator of an unblocked area is OFF.



## Easy installation and angle adjustment

Multiple accessory options to reduce installation time Simplify angle adjustment without relying on advanced engineering expertise



Easy beam adjustment after installation

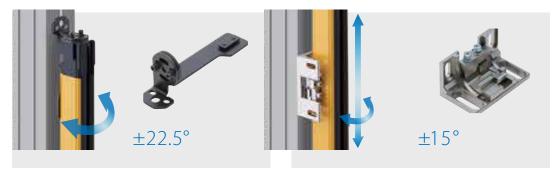
Problem

When using a protective cover, it is difficult to adjust the beams after installation.



F3SG-SR/PG

The rugged metal housing of the light curtain does not need a protection cover. Beams can be adjusted using optional brackets.



Adjustable Top / Bottom Bracket F3SJ, F3SN Adapter F39-LSGTB-SJ

This bracket used at the top and bottom of the light curtain provides horizontal adjustment of  $\pm 22.5^{\circ}$ .

Flexible

protection

Adjustable Side-Mount Bracket (Intermediate Bracket) F39-LSGA

This bracket provides horizontal adjustment of  $\pm 15^{\rm o}$  as well as vertical position adjustment.

#### Floor Mount Column

F39-ST

Available early 2020

This column can be installed independently of equipment or fences, almost anywhere.



Mount-Column Adjustable Base F39-STB

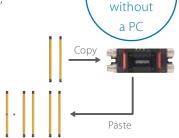
Available early 2020

#### Intelligent Tap

F39-SGIT-IL3

Settings can be copied between light curtains without using a PC, reducing time and effort.





Store &

load programs

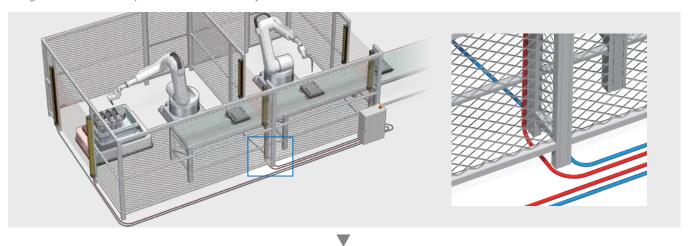
## Options to reduce wiring costs

Reduction in wiring minimizes installation costs

Simple wiring around large equipment

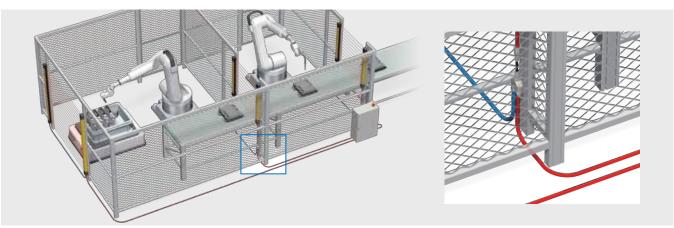
#### Problem

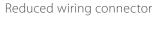
Long wire runs can be problematic and costly.



#### F3SG-SR/PG

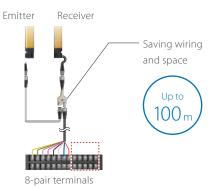
The reduced wiring system lessens the number of cables and terminal blocks as well as wiring time.









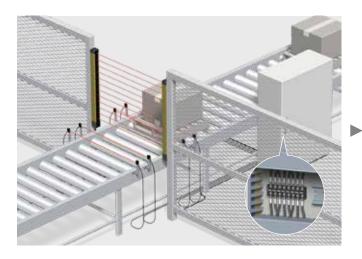




## One cable connection to control panel Options provide simple wiring for muting.

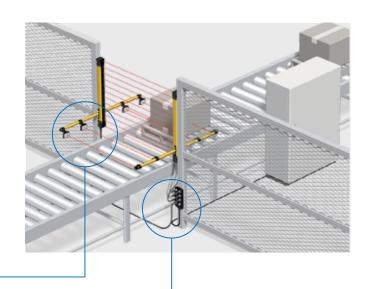
#### Problem

Light curtains are often used with muting sensors, complicating the wiring in control panel.



#### 3SG-SR/PG

Options to reduce wiring simplify wiring and installation of muting sensors.

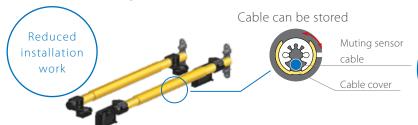


#### Muting Sensor Mounting Arm Brackets

F39-FMA

Available early 2020

The muting sensor mounting arm brackets facilitates installation of a muting sensor.



#### Muting Sensor Connection Box

F39-GCN5

Available early 2020

The connection box simplifies wiring for muting, and only one cable to connect to the control panel.

Reduced wiring time and costs



Note : The E3Z Muting Sensor is sold separately.

Smartclick connectors to quickly connect cables





Easy and secure connection

## Reduction in unwanted machine stoppages

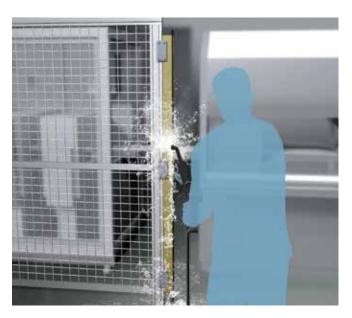
Robust design ensures stable operation in any environment

Light curtains tend to malfunction in harsh environments



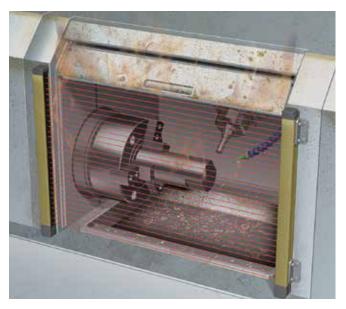
#### Cold storage warehouse

Safety measures cannot be implemented because there is no light curtain that can be used in cold environments.



#### Food processing line

Cleaning solution that gets inside the light curtain during machine wash-down causes failure.



#### Metal working process

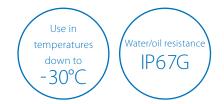
Oil mist penetrates the light curtain causing a failure.

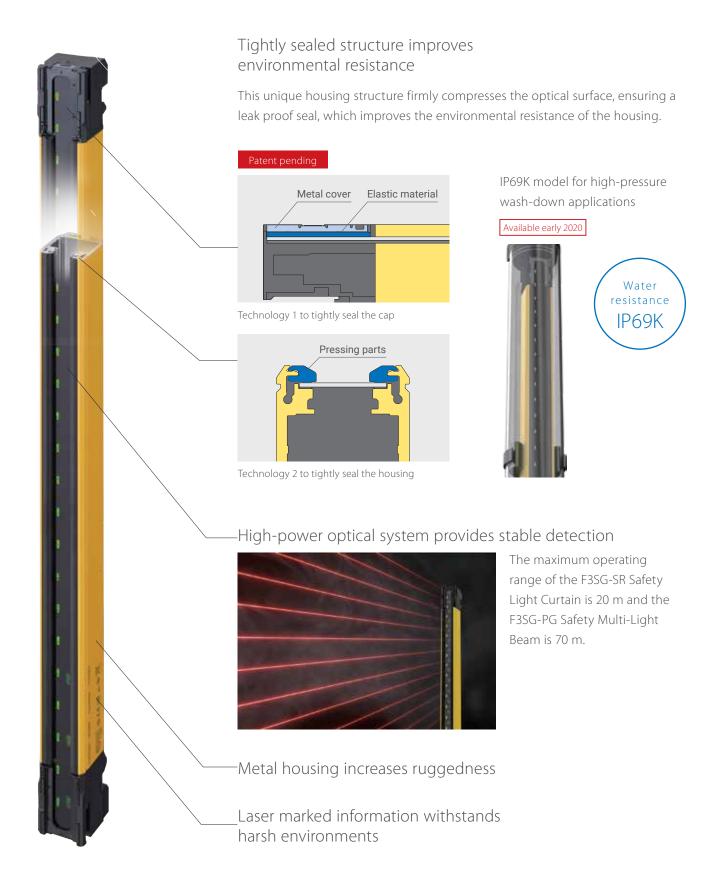


#### Use in harsh environments

The spattered or dusty optical surface of the light curtain causes a malfunction and sudden machine stop.







## Straightforward Maintenance

Even inexperienced operators can easily check status and replace light curtains

#### Color indicators provide for clear error diagnosis

The light curtain status can be checked at a glance.



#### Status indicator

Clear LED indicators with labels help perform predictive maintenance by dirt detection and determine the optimal replacement timing.

Colors and patterns indicate the status

Status indicator	Color	Status
MARIT	Red/ Illuminated	LOCKOUT state due to a recoverable error
MAINT	Red/ Blinking	LOCKOUT state due to a replacement-recommended error
MAINT	Orange/ Illuminated	Safety outputs are instantaneously turned OFF due to ambient light, vibration, or noise
MAINT	Orange/ Blinking	The Intelligent Tap is in LOCKOUT state

For information on other indicators, refer to Indicator on page 63 or Troubleshooting on page 95.

#### Lamp

Output status can be checked at a glance. F39-SGLP

Available early 2020



Output information can be assigned to the lamp and ABI.



Status, such as light intensity drop, can be checked from a distance.

#### Back up and restore settings with Intelligent Tap

Replacement and setting time during maintenance can be reduced by 90%.\*1

#### Plug & Work for quick replacement

Install the Intelligent Tap to automatically copy the settings of a light curtain to a new one.

Virtually anyone can easily replace light curtains and immediately restart the machine.

Replacement and setting time reduced by 90%





## ICT facilitates more detailed data monitoring

There is no need for a PC on site to check status

#### Easy remote monitoring

Various devices can be connected via IO-Link.\*1

#### **IO**-Link



Note: Screen images for illustration purposes only.

## No PC required on site

#### Easy on-site monitoring

The Bluetooth communication unit allows you to monitor information about device stoppages on mobile devices.





SD Manager 3 Mobile APP

#### Process data

- Auxiliary output status \*2
- Muting input status
- Sequence error information
- Unstable state information (each ch)
- Power voltage information
- OSSD output status

Service data

- Reset/EDM/override input status
- Instantaneous block information (each ch)
- · Light curtain/Intelligent Tap lockout information

#### • Intelligent Tap power-on time information

- Intelligent Tap information
- Error log (4 errors)

#### Requirements

Android™ 7.0 or higher Windows® 10



Startup screen



Error log screen



Light level monitoring

- Light curtain information
- Light intensity information (1 byte: 0-255)
- Light curtain settings
- Light curtain internal status information



<sup>\*1</sup> Refer to the IO-Link Series Catalog (Cat. No. Y229) for details.

<sup>\*2</sup> Auxiliary output can be set using the SD Manager 3.

## Easy setting via PC software

## SD Manager 3

The configuration tool allows you to easily monitor status and make settings without using a safety controller.

# THE SECOND CONTRACTOR OF THE SECOND CONTRACTOR

#### Manually loaded machining: PSDI



PSDI\*, provided as standard, reduces operator effort and increases productivity

There is no need for the operator to press a two-hand control switch, saving operating time and increasing operating efficiency.

#### Single break

The machine restarts when the light curtain is interrupted and reset once.

Example: Manual loading and automatic unloading press

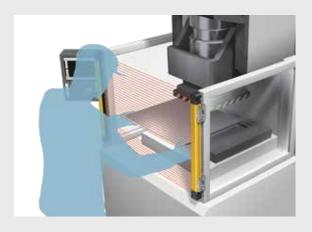
#### Double break

The machine restarts when the interruption and reset are repeated twice.

Example: Manual loading and manual unloading press

\* PSDI : Presence Sensing Device Initiation Read the User's Manual (Cat. No. Z405) before using.

Note: Comply with laws and regulations in the countries where the machine operates.



#### Dangerous restart prevention: Pre-Reset

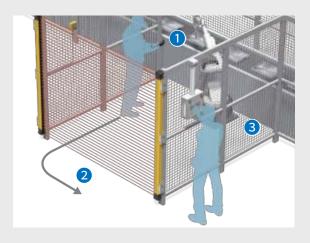


The Pre-Reset function prevents possible accidents

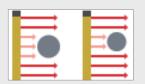
This function prevents the restart of equipment while an unseen worker is still near the robot, ensuring operators' safety.

- 1 Press the pre-reset switch inside the hazardous zone.
- 2 Get out of the hazardous zone.
- 3 Press the reset switch in the control panel to restart the light curtain.
  The machine is ready for restart.

The equipment cannot be restarted until the pre-reset switch of the light curtain is pressed and the light curtain is reset.



#### Ignoring interrupted beams: Reduced Resolution



Reduced Resolution changes the detection capability of the light curtain

Even when objects (with a size of 1 to 3 interrupted beams) are present, this function ignores them and keeps the safety outputs ON. This helps maintain productivity.

#### Example: Arm and body protection

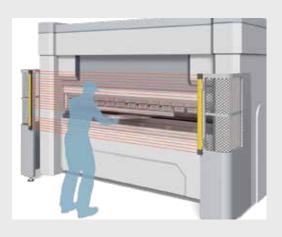
Safety output is kept ON even if worker's finger and an object interrupt 2 beams because they are allowed to enter.



When worker's arm or body, which interrupts 3 beams is detected, safety output is turned OFF.



Note: Ensure that the desired safety distance is maintained.



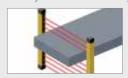
#### Built-in standard safety functions

#### Monitoring



Incident/Ambient
Light Level Information

#### Safety function setting



Fixed Blanking



Floating Blanking

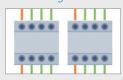


Muting/Override



Warning Zone

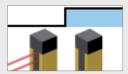
#### I/O setting



Interlock/External
Device Monitoring

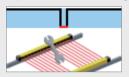


Teach-in Input



External Test Input

#### Operation state change



Response Time Adjustment



Operating Range Selection

## F3SG-SR/PG Series Features and Specifications

				achine openings : Curtain F3SG-SR		
			Advanced	d/Standard		
	Series					
	Finger Protection	•				
Application	Hand Protection		4			
Application	Arm/Leg Protection			<u>[</u>		
	Body Protection				术	
	Detection capability	14-mm dia.	25-mm dia.	45-mm dia.	85-mm dia.	
	Beam gap	10 mm	20 mm	40 mm	80 mm	
Specification	Max. operating range	10 m	20 m	20 m	20 m	
	Protective height	160 to 2,000 mm	160 to 2,480 mm	240 to 1,520 mm	280 to 920 mm	
	Number of beams	15 to 199	8 to 124	6 to 38	4 to 12	
	Degree of protection		IP65, IP67,	, and IP67G		
	Mutual interference prevention	r	(No settings required	for wired synchronization	1)	
	PNP/NPN Selection		-	•		
	External Test		-	•		
	Interlock		:III:	/ 🔲		
	Reset		-	•		
	Pre-Reset		:111	/ 🖳		
	PSDI					
	External Device Monitoring (EDM)			/ 🔲		
Feature	Auxiliary Output		L			
	Muting					
	Blanking		:111	/ 🔲		
	Reduced Resolution					
	Warning Zone					
	Operating Range Selection		/ 1]	<b>(</b> / <b>(</b>		
	Response Time Adjustment					
	Area Beam Indicator (ABI)		* Advance	ed models only		
	Designated Beam Output		<u></u>	_		
Connection/	Cascade connection	Available	Available	Available	Available	
wiring	Reduced wiring system*1	Available	Available	Available	Available	
	Laser Alignment Pointer	Available	Available	Available	Available	
Accessory	Lamp Available early 2020	Available	Available	Available	Available	
	IP69K model Available early 2020	Available	Available	Not available	Not available	

Setting by DIP switch on Intelligent Tap 🖳 Setting by configuration tool SD Manager 3 🗨 Setting by wiring 🔲 Setting by end cap



		around perimeters of equipmen Multi-Light Beam F3SG-PG	Available early 2020			
	Perimeter Access Guarding	Perimeter Guarding Long Range	Perimeter Guarding Deflect Mirror	_		
				Series		
				Finger Protection		
				Hand Protection		
				Arm/Leg Protection	Application	
	<b>*</b>	K	<b>*</b>	Body Protection		
				Detection capability		
		300 mm/400 mm/500 mm		Beam gap		
	20 m	70 m	6 to 10 m *2	Max. operating range	6 .6	
		580 to 1,280 mm		Protective height	Specification	
		Number of beams				
$\dashv$		IP65 and IP67		Degree of protection		
	<b>∏</b> (No	settings required for wired synch	ronization)	Mutual interference prevention		
		-		PNP/NPN Selection		
		_	Not supported	External Test		
		- : <b>II</b> :/_	. Tot supported	Interlock		
-				Reset		
+				Pre-Reset		
		Not supported		PSDI		
+		int/ 🗆		External Device Monitoring (EDM)		
-				Auxiliary Output	Feature	
+				Muting		
+		Not supported		Blanking		
+		Not supported		Reduced Resolution		
+		Not supported		Warning Zone		
+			Not supported	Operating Range Selection		
+	-8/ 11			Response Time Adjustment		
+		Area Beam Indicator (ABI)				
		<u> </u>		Designated Beam Output		
	Not available		Not a vallet le	-	<i>C</i> - · · ·	
+	Not available Available	Not available Available	Not available Available	Cascade connection Reduced wiring system*1	Connection wiring	
$\overline{}$	Available	Available	Available *3	Laser Alignment Pointer		
$\dashv$	Available	Available	Available *3	Lamp Available early 2020	Accessory	
- 1	Available	Not available	Not available	IP69K model Available early 2020		

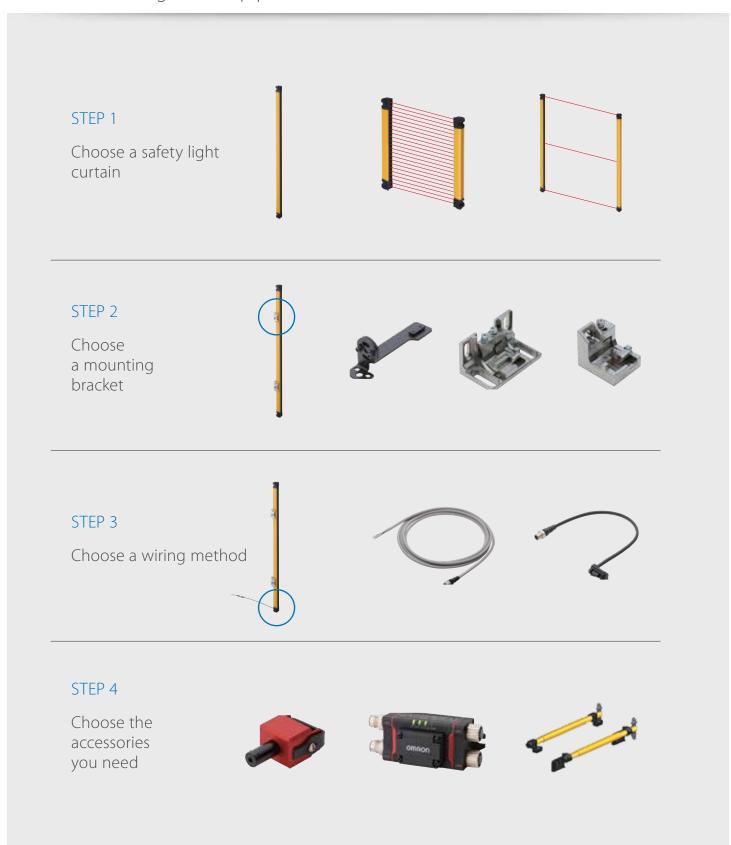
<sup>\*1.</sup> The reduced wiring system includes the Y-joint plug/socket connector, reset switch connector, and muting sensor connection box (available soon).

<sup>\*2.</sup> Varies depending on the model.

<sup>\*3.</sup> Cannot be mounted on the passive mirror.

## F3SG-SR/PG Series Product Selection

Choose your safety light curtain and accessories from our F3SG Series through a 4-step process





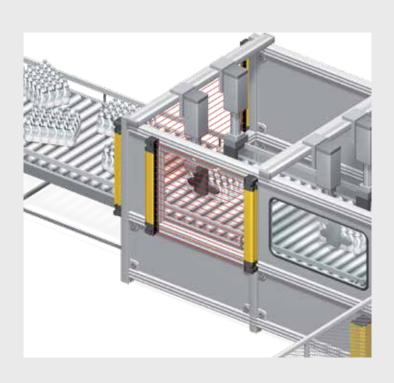
Step 1: Choose a safety light curtain

Protection at machine openings



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Safety Light Curtain F3SG-SR Series



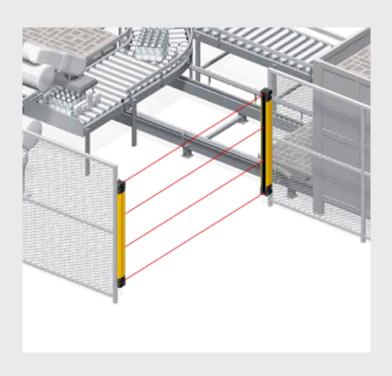
Protection around perimeters of equipment



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Safety Multi-Light Beam F3SG-PG Series

Available early 2020

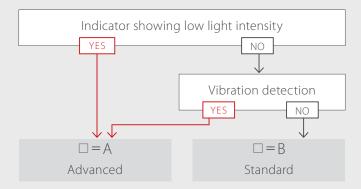




#### Complete the model number.



1 Select an application.



2 Select detection capability.

	Туре	2
	Finger Protection	
	Detection capability 14-mm dia.	□□=14
	Hand Protection	
	Detection capability 25-mm dia.	□□=25
U	Arm/Leg Protection	
	Detection capability 45-mm dia.	□□=45
*	Body Protection	
	Detection capability 85-mm dia.	□□=85

3 Select protective height.\*

#### Finger Protection

Protective height (mm)	Number of beams	3
160	15	□□□□=0160
240	23	□□□□=0240
320	31	□□□□=0320
400	39	□□□□=0400
480	47	□□□□=0480
560	55	□□□□=0560
640	63	□□□□=0640
800	79	□□□□=0800
1000	99	□□□□=1000
1200	119	□□□□=1200
1400	139	□□□□=1400
1600	159	□□□□=1600
1800	179	□□□□=1800
2000	199	□□□□=2000

#### Arm/Leg Protection

Protective height (mm)	Number of beams	3
240	6	□□□□=0240
400	10	□□□□=0400
560	14	□□□□=0560
720	18	□□□□=0720
880	22	□□□□=0880
1200	30	□□□□=1200
1520	38	□□□□=1520

#### **Body Protection**

Protective height (mm)	Number of beams	3
280	4	□□□□=0280
440	6	□□□□=0440
600	8	□□□□=0600
760	10	□□□□=0760
920	12	□□□□=0920



## Step 1: Choose a safety light curtain

#### Hand Protection

Protective height (mm)	Number of beams	3
160	8	□□□□=0160
240	12	□□□=0240
320	16	□□□=0320
400	20	□□□=0400
480	24	□□□□=0480
560	28	□□□□=0560
640	32	□□□□=0640
720	36	□□□=0720
800	40	□□□□=0800
880	44	□□□□=0880
960	48	□□□□=0960
1040	52	□□□□=1040
1120	56	□□□□=1120
1200	60	□□□□=1200
1280	64	□□□□=1280
1360	68	□□□□=1360
1440	72	□□□□=1440
1520	76	□□□□=1520
1600	80	□□□□=1600
1680	84	□□□□=1680
1760	88	□□□□=1760
1840	92	□□□□=1840
1920	96	□□□□=1920
2080	104	□□□□=2080
2280	114	□□□□=2280
2480	124	□□□□=2480

## 45 Select an option.\*

Туре	4
Set of emitter and receiver	Blank
Emitter	□=L
Receiver	□=D

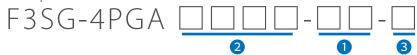
#### Finger Protection and Hand Protection only

5
Blank
□=F

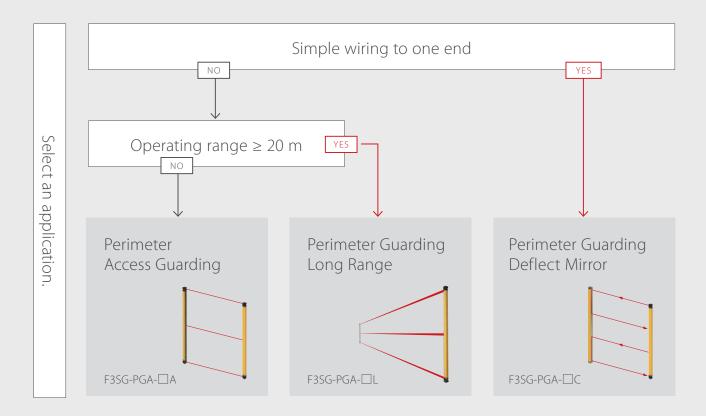
<sup>\*</sup> Representative models are listed. For other models, refer to page 34 and following.



Complete the model number.



1 Select an application and then select a beam gap and number of beams.



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elect a beam gap and number of beams.
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Beam gap/ number of beams	0
500 mm/2 beams	□□=2A
400 mm/3 beams	□□=3A
300 or 400 mm/ 4 beams	□□=4A

Beam gap/ number of beams	0
500 mm/2 beams	□□=2L
400 mm/3 beams	□□=3L
300 or 400 mm/ 4 beams	□□=4L

Beam gap/ number of beams	0
500 mm/2 beams	□□=2C
400 mm/3 beams	□□=3C
300 or 400 mm/ 4 beams	□□=4C



## Step 1: Choose a safety light curtain

2 Select protective height.\*

Protective height (mm)	Number of beams	2
580	2	□□□□=0580
880	3	□□□□=0880
980	4	□□□□=0980
1280	4	□□□□=1280

3 Select an option.

Туре	3
Set of emitter and receiver, or set of emitter/receiver and passive mirror	Blank
Emitter	□=L
Receiver	
Emitter/receiver (Perimeter Guarding Deflect Mirror only)	□=LD
Passive mirror (Perimeter Guarding Deflect Mirror only)	□=M

 $<sup>\</sup>ensuremath{^{*}}$  Representative models are listed. For other models, refer to page 36 and following.

#### Step 2: Choose a mouting bracket





Suitable for mounting on an aluminum profile so that its center is aligned with the center of beams.

- Included as a standard accessory with the light curtain
- Side mounting and backside mounting
- Beams not adjustable after installation

[Number of provided brackets] Protective height  $\leq$  1,440 mm : 4 Protective height  $\leq$  1,520 mm : 6

#### Brackets that allow beam adjustment after the light curtain is installed





- Vertical adjustment Angle adjustment range : ±15°
- Side mounting and backside mounting
- Two brackets per set

For F3SG-PG Perimeter
Guarding Deflect Mirror

F39-LSGA-C Available early 2020





- Used at the top and bottom of the light curtain
- Angle adjustment range: ±22.5°
- For replacement of F3SJ or F3SN Series
- Side mounting and backside mounting
- •Two brackets per set

For F3SG-PG Perimeter Guarding Deflect Mirror

F39-LSGTB-C Available early 2020

Mounting brackets to easily replace your existing Omron light curtains are also available.

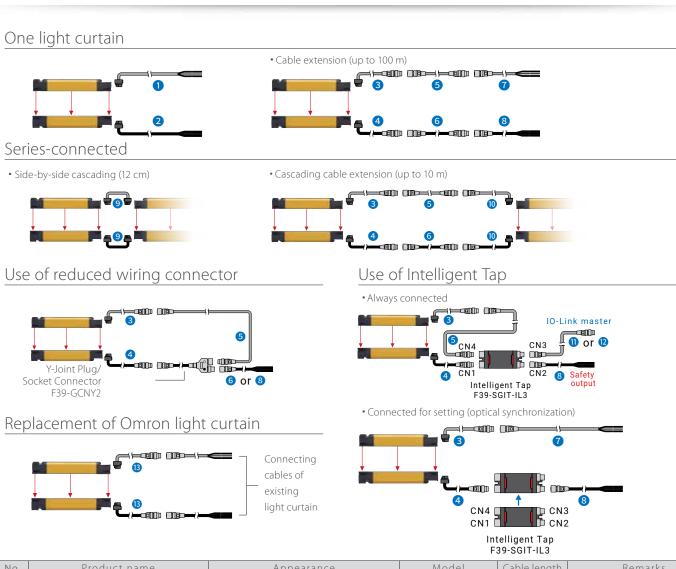
For replacement of F3SG-RA/RE Series

Adjustable Top/Bottom Bracket F3SG-RA/RE Adapter F39-LSGTB-RE For replacement of MS4800 Series and F3SR-B Series

Adjustable Top/Bottom Bracket MS4800/F3SR Adapter F39-LSGTB-MS



## Step 3: Choose a wiring method



No.	Product name	Appearance	Model	Cable length	Remarks
0	- Endcap-Straight Cable		F39-JG□C-L	3, 7, 10 m	For emitter, gray
2			F39-JG□C-D	3, 7, 10 m	For receiver, black
3	Endcap-Plug Cable for Extended		F39-JGR3K-L	30 cm	For emitter, gray
4			F39-JGR3K-D	30 cm	For receiver, black
6	Extended Plug-Socket Cable		F39-JG□B-L	3, 10, 20 m	For emitter, gray
6			F39-JG□B-D	3, 10, 20 m	For receiver, black
7	Extended Socket-Straight Cable		F39-JG□A-L	3, 10 m	For emitter, gray
8			F39-JG□A-D	3, 10 m	For receiver, black
9	Side-by-side Cascading Cable		F39-JGR12L	12 cm	For emitter and receiver, two cables per set
10	Cascading Cable for Extended		F39-JGR3W	30 cm	For emitter and receiver, two cables per set
0	Socket-Straight Cable for IO-Link		F39-JG□B-L	3, 10, 20 m	For connection to GX-ILM08C
12	Root-Straight Cable for IO-Link		XS5F-D521-DJ0-IL	2 m	For connection to NX-ILM400
13	Conversion Cable		F39-JGR3K-SJ	30 cm	For use of wiring for F3SN, F3SJ-A/-B, or F3SR
			F39-JGR3K-RE	30 cm	For use of wiring for F3SG-RE
			F39-JGR3K-MS	30 cm	For use of wiring for MS4800

#### Step 4: Choose the accessories you need

### Intelligent Tap and configuration tool SD Manager 3

Easy monitoring, setting, and IO-Link connection with external devices

#### Intelligent Tap F39-SGIT-IL3



#### Configuration tool for PC SD Manager 3



#### Bluetooth Communication Unit F39-SGBT



## Monitoring tool for smartphones and tablets

SD Manager 3 Mobile APP Requirements Android 7.0 or higher/Windows 10 For details, refer to your local Omron website.



#### Reduced wiring system

Simple wiring of light curtains and reset switches

#### Y-Joint Plug/Socket Connector

F39-GCNY2





#### Reset Switch Connector

F39-GCNY3

Note: Please prepare a reset switch (NC contact).





#### Muting system

Easy installation and wiring of muting sensors

#### Muting Sensor Mounting Arm Bracket

F39-FMA

(Through-beam) Available early 2020

F39-FMA 🗆 🗆 R

(Retro-reflective) Available early 2020

Muting Sensor Connection Box

F39-GCN5

Available early 2020









#### Floor mount system

Easy installation of light curtains and mirrors on floors

#### Floor Mount Column

F39-ST

Available early 2020

#### Mount-Column Adjustable Base

F39-STB

Available early 2020



Mirror Column (for F3SG-SR Safety Light Curtain)

F39-SML

Available early 2020

Mirror Column (for F3SG-PG Safety Multi-Light Beam)

F39-PML Available early 2020



#### Laser Alignment Pointer

Easy beam adjustment with laser beam

F39-PTG



#### Spatter Protection Cover

Protection of optical surfaces against spatter

F39-HSG

#### Lamp

At-a-glance check of light curtain status

F39-SGLP

Available early 2020

Note: The Lamp does not support Bluetooth communication.



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