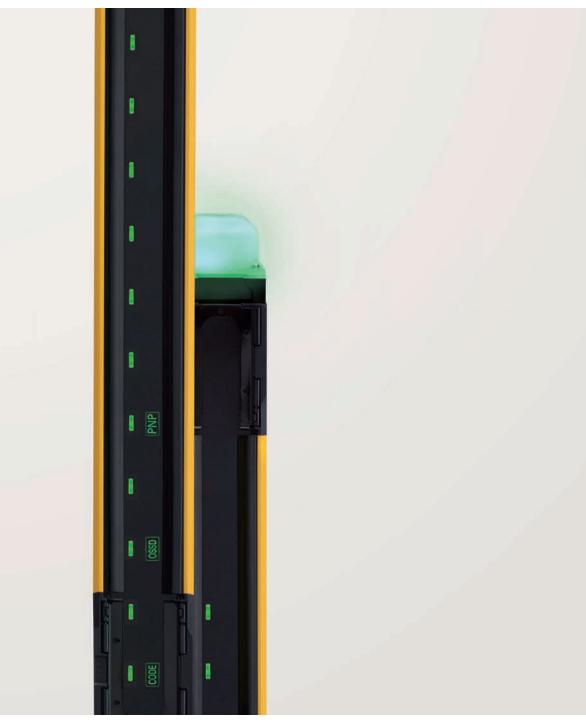


Easy to monitor and ready for IoT







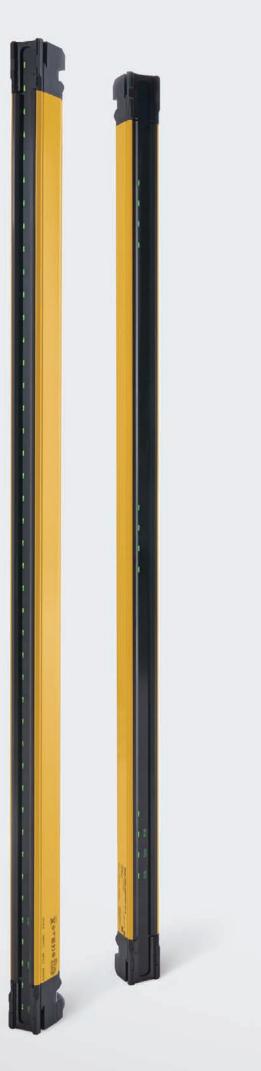




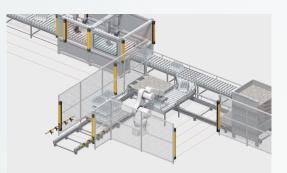


This series redefines safety at manufacturing sites

Manufacturers now need to manage globalization and flexible production. That's why we have developed our F3SG-SR/PG Series. This series offers a complete lineup of light curtains that comply with global safety standards and a wide range of functionality that covers all aspects from design through to maintenance. The F3SG-SR/PG Series helps manufacturers build safety systems.

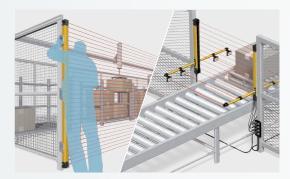


Build flexible safety systems



Design

Easy design of line safety Page 4	1
Flexible design for	
equipment Page 8	3



Set-up

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



Operation

Reduction in unwanted machine stoppages Page 14

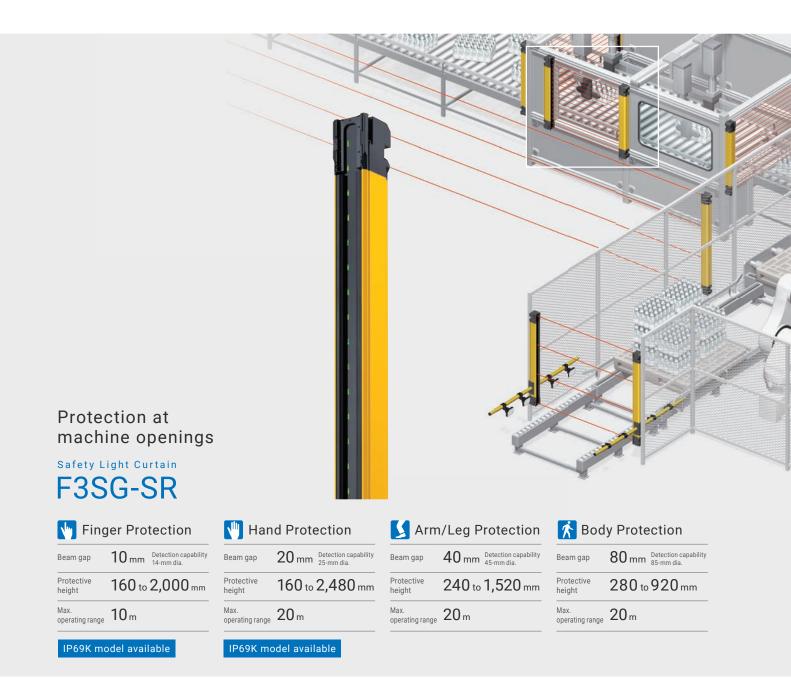


Maintenance

Maintenance with no special skills required ----- Page 16

One series covers all protection applications-from machine

Standardize mechanical design across production lines and eliminate complexity of selection and design.



Common optional accessories including cables and brackets*

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



* Except for some optional accessories. See the F3SG-SR/PG Datasheet for details.

(The mount-column adjustable base is sold separately.)

openings to perimeters of equipment



Mirror Column (for F3SG-PG Safety Multi-Light Beam) F39-PML Laser Alignment Pointer F39-PTS



This series conforms to worldwide safety

standards.



PNP/NPN selection by changing the wiring allows you to easily bring and install the light curtain across the world.

Helps build safety systems for machines all over the world



The unique tightly sealed structure meets IP67G water and oil resistance and IP69K*.

* (Safety Light Curtain IP69K model F3SG-SR-K)



A broad lineup for flexible production line design

Create flexible design plans to suit your equipment requirements.

Long operating range thanks to unique optical design

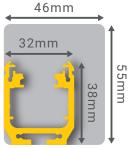
The long-distance sensing capability enables reliable detection even in harsh environments.



Omron's unique compact design

The F3SG-PG Safety Multi-Light Beam has the same compact housing as the F3SG-SR Safety Light Curtain. This makes mechanical design more flexible.



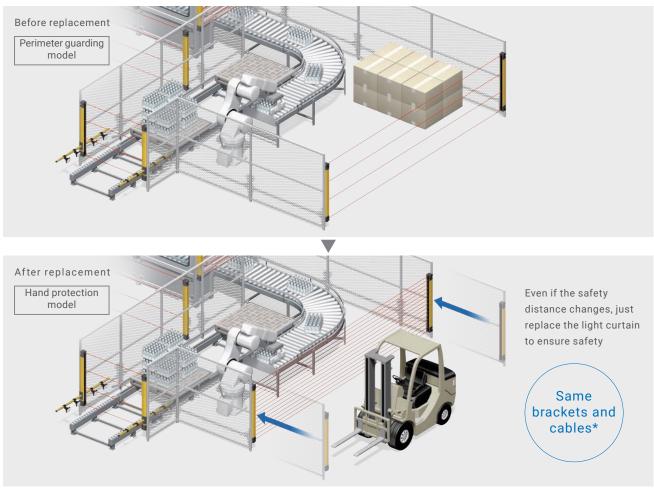


* Compared with OMRON Robotics and Safety Technologies, Inc's PA46 Perimeter Access Guarding Device. (Based on Omron investigation in June 2018)

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 select and install optional accessories for a new light curtain.

Example : In order to install the light curtain closer to the machine, the perimeter guarding model is replaced with the hand protection model.



Just replace the light curtain with the same protective height*

F3SG-SR Series lineup	Standard model OFlexible height model ((Increments of 40 mm)
Protective height (mm) 160 200 240 280 320 360 400 440 480 520 560 600 640 670	0 680 720 760 800 840 880 920 960 970 1000 1040	1070 1120 1200 1280 1360 1370
Finger Protection •	0 0 0 • 0 0 0 0 •	•
Hand Protection •	$\bigcirc \bullet \bigcirc \bullet $	
Arm/Leg Protection	• • • • • • • • • • • • • • • • • • •	•
Body Protection		
Protective height (mm) 1400 1440 1520 1600 1680 1760 1800 1840 1920 2000 2080 2280 2480		
Finger Protection		
Hand Protection		
Arm/Leg Protection		
Body Protection		
F3SG-PG Series lineup		
Product length (mm) 160 200 240 280 320 360 400 440 480 520 560 600 640 670	0 680 720 760 800 840 880 920 960 970 1000 1040	1070 1120 1200 1280 1360 1370
Perimeter Access Guarding	•	• •
Perimeter Guarding Long Range		•
Perimeter Guarding Passive Mirror		• •

* Except for some models and optional accessories.See the F3SG-SR/PG Datasheet for details.

Flexible installation

Perfect fit

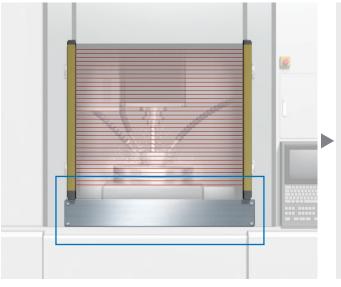
Protective heights are available in increments of 40 mm up to 1,000 mm*. The perfect protective height for any protected area ensures safety without the need for additional measures.

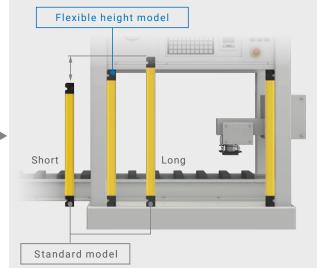
F3SG-SR*

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

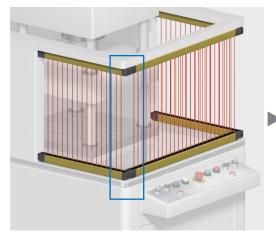
* F3SG-SR Finger and Hand Protection models only.

Protection without dead space

The F3SG-SR Series eliminates dead space that previously existed even when light curtains are series-connected or U-shape connected. Safer systems can be designed.

Problem

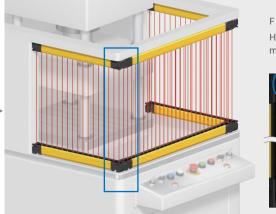
Dead space exists at the joint.



* Except for F3SG-SR Finger Protection models.

F3SG-SR*

Eliminates dead space and ensures safety.



F3SG-SR Hand Protection model (25-mm dia.)

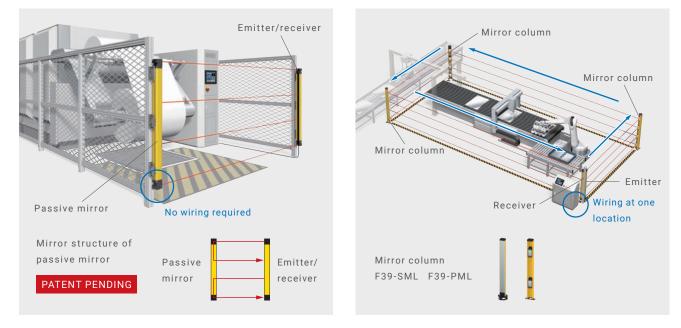


Simple wiring for flexible design

The F3SG-PG-C Perimeter Guarding Passive Mirror requires wiring of only the emitter/receiver. The use of an optional mirror column allows wiring at one location for protection around perimeters of equipment. They reduce wiring duct design and wiring time.

Wiring only the emitter/receiver (F3SG-PG-C)

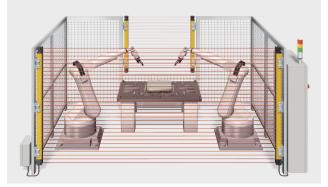
Wiring at one location for protection around perimeters of equipment (Other than F3SG-PG-C)

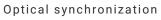


Two different synchronization methods

Choose from two different methods of

synchronization between the emitter and receiver to suit your equipment.



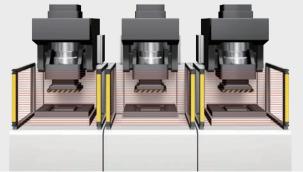


No sync lines are required. Connect emitter only to power supply.

No wiring of emitter to control panel required

Mutual interference prevention : Up to 2 sets





Wired synchronization Mutual interference prevention : Up to 3 sets



Color indication of beam status for quick and easy beam adjustment

Reduce beam adjustment time.

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

PATENTED

The ON or OFF state of the light curtain and low light intensity can be checked. The ABI also facilitates fine adjustment of beams for long-distance sensing.



A variety of optional accessories for easy installation and angle adjustment

Reduce installation time and easily adjust beams after installation without relying on the expertise of experienced engineers.



Easy beam adjustment after installation

Problem

It is difficult to adjust beams after the light curtain and protective components are installed.



F3SG-SR/PG

The rugged metal housing does not need protective components. Beams can be adjusted using brackets.



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

This bracket used at the top and bottom of the light curtain provides horizontal adjustment of ±22.5°.



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

This bracket provides horizontal adjustment of ±15° as well as vertical position adjustment.



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





Mount-Column Adjustable Base F39-STB

Intelligent Tap F39-SGIT-IL3

Settings can be copied and pasted between the same models of light curtains without using a PC, reducing time and effort to install many light curtains in mass production facilities. Settings can be backed up and automatically restored at power on.



Setting without PC

(The mount-column adjustable base is sold separately.)

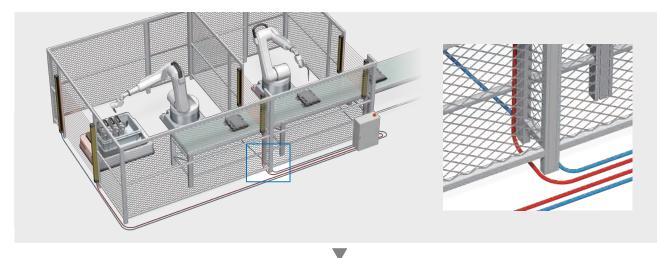
Reduced wiring system for various equipment

Wiring work during line installation and maintenance can be greatly reduced.

Simple wiring around large equipment

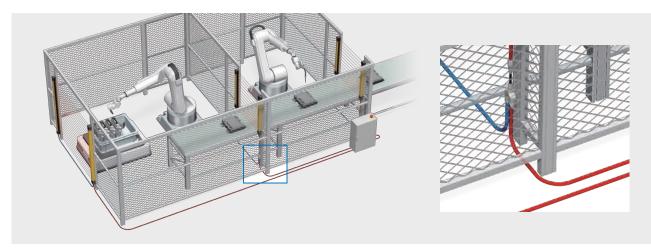
Problem

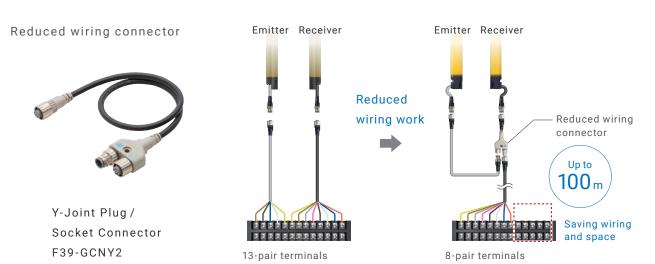
The distance of wiring around large facilities to the control panel generally becomes long.



F3SG-SR/PG

The reduced wiring system reduces the number of cables and terminal blocks and wiring time.





Note: Refer to the User's Manual (Cat. No. Z405) for more information on cable extension.

One cable connection to control panel

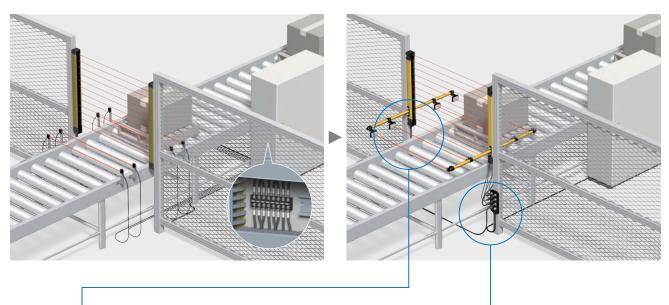
Options provide simple wiring for muting.

Problem

In order to maintain productivity, the light curtains are often used with muting sensors, which makes wiring in the control panel more complicated.

F3SG-SR/PG

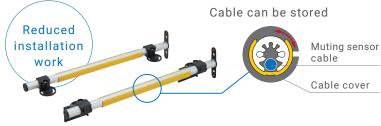
Options to reduce wiring simplify wiring and installation of muting sensors.



Muting Sensor Arm Mounter F39-FMA

The muting sensor arm mounter facilitates installation of a muting sensor.

Note : The E3Z Muting Sensor is sold separately.



Muting Sensor Connection Box F39-GCN5

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





Smartclick is a registered trademark of OMRON Corporation.

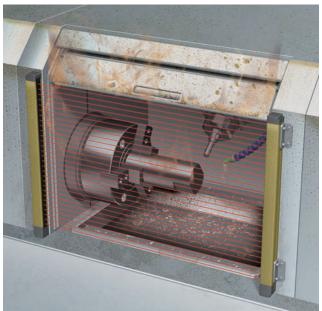
Robustness for operation in harsh environments

Specifications suitable for use in any environment contribute to stable operation.

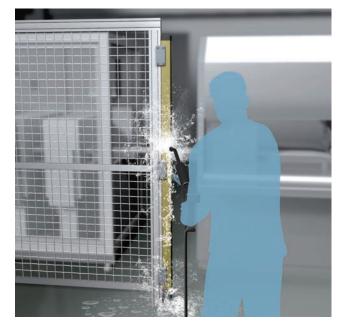
Designed for reliable use in harsh environments where light curtains are prone to malfunction



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



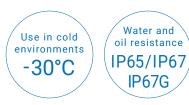
Metal working process Oil that gets inside the light curtain causes failure at locations where oil mist is present.



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



Use in harsh environments The spattered or dusty optical surface of the light curtain causes a malfunction or an unplanned machine stop.

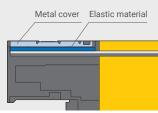


IEC 60529 JIS C 0920 Annex 1

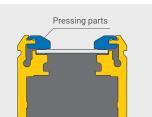
Tightly sealed structure improved environmental resistance

The unique structure firmly presses the optical surface. Stable sealing performance resists penetration of liquid inside the light curtain, which improves environmental resistance.





Technology 1 to tightly seal the cap



Technology 2 to tightly seal the housing

IP69K model for highpressure wash-down applications

F3SG-SR-K



High-power optical system provides stable detection



The maximum operating range of the F3SG-SR Safety Light Curtain is 20 m and of the F3SG-PG Safety Multi-Light Beam 70 m.The high-power beam is robust in harsh environments.

Metal housing increases ruggedness

 Laser marked product information withstands harsh environments

Easy maintenance

Even inexperienced operators can easily check status and replace light curtains.

Easy error diagnosis with clear color indicators

The light curtain status can be checked at a glance.



Status indicator

Clear LED indicators with labels provide information about dirt detection for predictive maintenance and about LOCKOUT state for recommending replacement.

Colors and patterns indicate the status



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



Output information can be assigned to the lamp as well as ABI.



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

* The M status indicator is used for the 14-mm detection capablity model.

For information on other indicators, refer to the F3SG-SR/PG Datasheet (Cat. No. F117) Indicator or Troubleshooting.

Back up and restore settings with intelligent tap

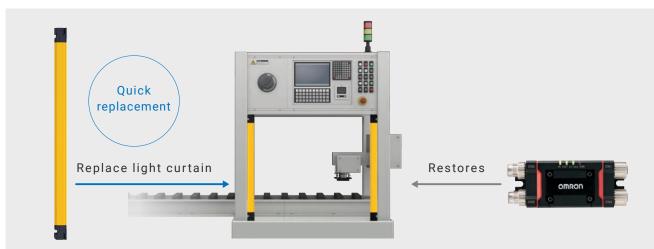
Replacement and setting time during maintenance can be reduced to 1/10 or less*.

Plug & Work for quick replacement

Install the intelligent tap to automatically copy the settings of the replaced light curtain to a new one. Virtually anyone can easily replace light curtains and immediately restart the machine. Replacement and setting time reduced to 1/10 or less*



Intelligent Tap F39-SGIT-IL3



* Based on Omron investigation in June 2018.

Preventive maintenance

The status of the light curtain is monitored, and the abnormal state is displayed. This helps minimize machine downtime.

Visualization of status

Various devices can be connected via IO-Link.*1 Low light intensity due to dirt on the light curtain can be displayed on the monitor, which is useful for preventive maintenance prior to erroneous detection.

🚷 IO-Link



No PC required on site

Note 1. Screen images for illustration purposes only. 2. You need to create screens.

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

- Light curtain information
- Light intensity information (1 byte: 0-255) time information
- Light curtain settings
- Light curtain internal status information Error log (4 errors)

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

Intelligent Tap power-on

Intelligent Tap information

Easy on-site monitoring The Bluetooth[®] communication unit allows

I he Bluetooth[®] communication unit allows you to monitor information about device stoppages on mobile devices.





SD Manager 3 Mobile APP

Requirements

Android™ 7.0 or higher

SD SD	Manager	3 Interio
Ich	2ch	3ch
veer Poss)-alinuo niji Number (212)	160-25. # of beam A118. Detection of	a A spatiality 25mm
63		1
Incontent Light/	in a	
Artiliard Light	Manifolding	Selectation .
Aarlager 3 has nea Aarlager 3 has nea Aarlager 3 has nea	I the serial number I the basic inform I the series state	alan.

Startup screen

Annuel Manager Manager
 Annuel Manager Manager
 Annuel Manager Manager
 Annuel Manager Manager
 Annuel Manager

Error log screen



Light level monitoring



2. You need to create screens.

*1. Refer to the IO-Link Series Catalog (Cat. No. Y229) for details. *2. 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.



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

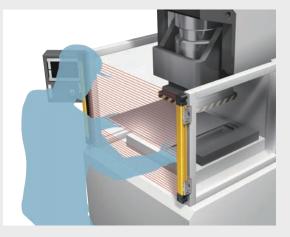
The machine restarts when the light curtain is interrupted and reset once. Example : Manual loading and automatic unloading press

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.

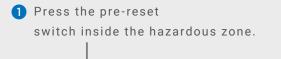


Dangerous restart prevention : Pre-Reset



The Pre-Reset function prevents possible accidents

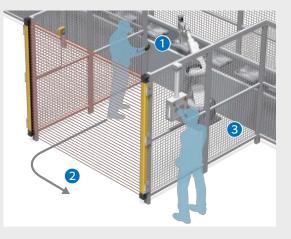
This function prevents the restart of equipment while an unseen worker remains near the robot, ensuring operators' safety.



2 Get out of the hazardous zone.

3 Press the reset switch outside the hazardous zone to restart the light curtain.

The equipment cannot be restarted until the pre-reset conditions are met and the light curtain is reset.



Change of detection capability: Reduced Resolution

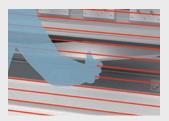


Reduced Resolution changes the detection capability according to the specified number of interrupted beams

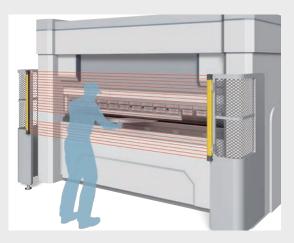
Even when objects (with a size of 1 to 3 beams) are present discontinuously, this function ignores them and keeps the safety outputs ON. This allows objects to move within the detection area or workers to interrupt some beams, helping maintain productivity.

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.



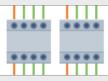
Built-in standard safety functions

Monitoring

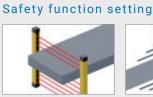


Incident / Ambient Light Level Information

I/O setting



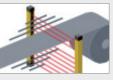
Interlock / External Device Monitoring



Fixed Blanking

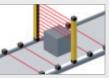
TEACH

Teach-in Input



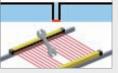
Floating Blanking

External Test Input



Muting/Override





Response Time Adjustment





Operating Range Selection

19

F3SG-SR/PG Series Features and specifications

				Protec	ction at machine of	openings :
			Advanced	/Standard		
	Series					
	Finger Protection					
Application	Hand Protection					
Application	Arm/Leg Protection			<u> </u>		
	Body Protection				×	
	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	
opeomoution	Protective height (Product length)	160 to 2,000 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	🗖 (No	settings required f	or wired synchroni	ization)	
	PNP/NPN Selection		-			
	External Test					
	Interlock		126	/ 🖵		
	Lockout Reset		-			
	Pre-Reset		1	/ 🖵		
	PSDI					
	External Device Monitoring (EDM)		1 0	/ 🖵		
Feature	Auxiliary Output					
	Muting					
	Blanking		:	/ 💻		
	Reduced Resolution					
	Warning Zone					
	Operating Range Selection					
	Response Time Adjustment					
	Area Beam Indicator (ABI)			* Advanced models	only	
	Designated Beam Output					
Connection/	Cascade connection	Available	Available	Available	Available	
wiring	Reduced wiring system*1	Available	Available	Available	Available	
	Laser Alignment Pointer	Available	Available	Available	Available	
Optional	Lamp	Available	Available	Available	Available	
· ·	Mirror Column Muting Sensor Arm Mounter/Connection Box	Available	Available	Available	Available	

🗊 Setting by DIP switch on Intelligent Tap 🛛 🖳 Setting by configuration tool SD Manager 3 🛛 🖛 Setting by wiring

Setting by end cap

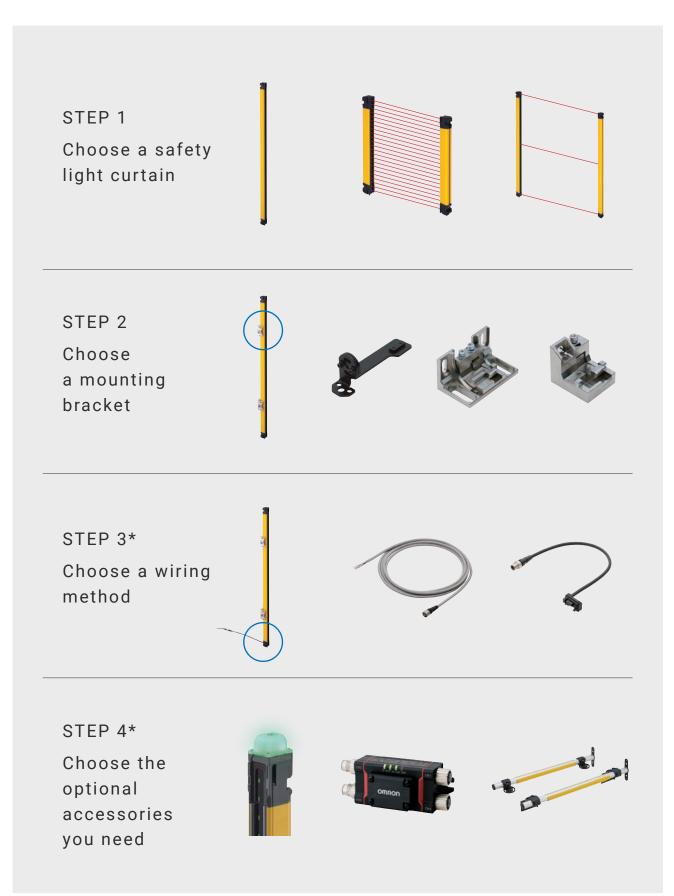
Safety Ligh	t Curtain F3SG-SR			around perimeters of o y Multi-Light Beam F3:	
	IP69K mode	el, Standard	Perimeter Access Guarding	Perimeter Guarding Long Range	Perimeter Guarding Passive Mirror
	₩ ŋ				
		N ^{II}			
			Ŕ	Ŕ	Ŕ
	14-mm dia.	25-mm dia.		30-mm dia. + beam gap)
	10 mm	20 mm		00 mm/400 mm/500 m	
	8 m	16 m	20 m	70 m	5 m
	320 to 1,800 mm	320 to 1,840 mm		670 to 1,370 mm	
	31 to 179	16 to 92	2, 3 a	and 4	2 and 4
	IP65, IP67,	and IP69K		IP65 and IP67	
	No settings required for	r wired synchronization	n (No setting	gs required for wired syr	nchronization)
	-	•	-		Not supported
	:20:	/ 🛄 *2			
	-	•		-	
	: :::: ;	/ 💻 *2			
		*2		Not supported	
		/ 🔲 *2			
		*2			
		*2			
		/ 🛄 *2		Not supported	
		*2		Not supported	
		*2	Net 1	Not supported	N-t t
		(/ (*2	Not supported		Not supported
		*2			
	Not supported				
	*2				
	Not available		Not available	Not available	Not available
	Not available		Available	Available	Available
	Not av	ailable	Available	Available	Available
	Not av	ailable	Available	Available	Available *3
	Not av	ailable	Available	Available	Available *4

*1. The reduced wiring system includes the Y-joint plug/socket connector, reset switch connector, muting sensor connection box, and muting sensor arm mounter. *2. When connecting F3SG-SR-K with open-ended cable to the intelligent tap, use a relay terminal block. *3. The lamp can be attached to the emitter/receiver. *4. The perimeter guarding passive mirror cannot be used with the mirror column.

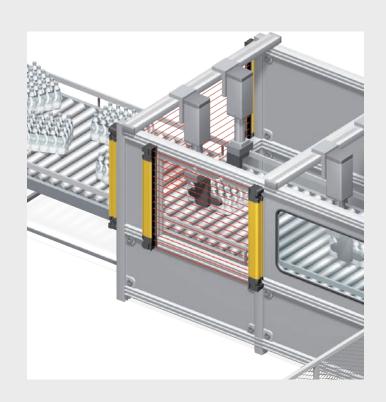
Safety Light Curtain/Safety Multi-Light Beam

F3SG-SR/PG Series Product selection

Choose your safety light curtain and optional accessories from our F3SG-SR/PG Series through a 4-step process.



* There is no need to follow STEP 3 and STEP 4 when the IP69K model is selected.



Protection at machine openings

SR

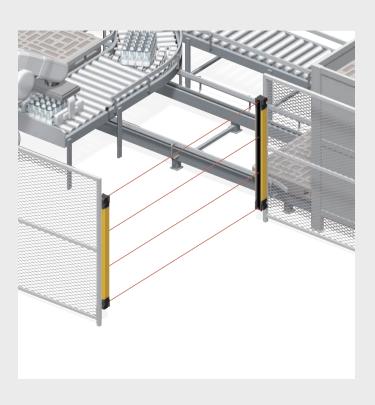
Safety Light Curtain
F3SG-SR Page 24

IP69K model Page 32

Protection around perimeters of equipment

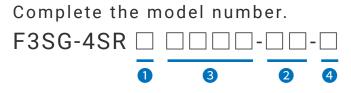
ΡG

Safety Multi-Light Beam F3SG-PG Page 26

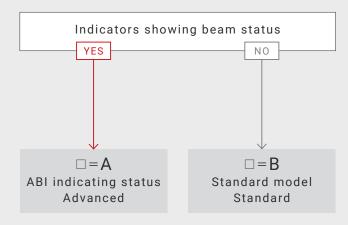


Protection at machine openings

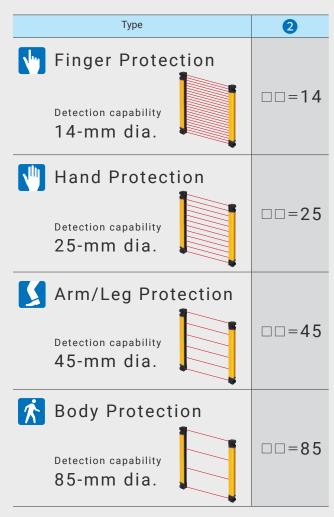




1 Select an application.



2 Select detection capability.



3 Select protective height.

Finger Protection

Protective height (mm)	Number of beams	3	4*
160	15	□□□□=0160	
200	19	□□□□=0200	F
240	23	□□□□=0240	
280	27		F
320	31		
360	35		F
400	39		
440	43		F
480	47		
520	51	□□□□=0520	F
560	55	□□□□=0560	
600	59		F
640	63	□□□□=0640	
680	67		F
720	71	□□□□=0720	F
760	75	□□□□=0760	F
800	79		
840	83		F
880	87		F
920	91	□□□□=0920	F
960	95	□□□□=0960	F
1000	99		
1200	119	□□□□=1200	
1400	139	□□□□=1400	
1600	159	□□□□=1600	
1800	179		
2000	199	 2000	

* Flexible height model (Increments of 40 mm)

Hand Protection

Protective height (mm)	Number of beams	3	4*
160	8		
200	10		F
240	12		
280	14		F
320	16		
360	18		F
400	20		
440	22		F
480	24		
520	26	□□□□=0520	F
560	28		
600	30		F
640	32		
680	34		F
720	36	□□□□=0720	
760	38		F
800	40		
840	42		F
880	44		
920	46		F
960	48		
1000	50		F
1040	52		
1120	56	□□□□=1120	
1200	60	□□□□=1200	
1280	64	□□□□=1280	
1360	68	□□□□=1360	
1440	72		
1520	76	□□□□=1520	
1600	80	□□□□=1600	
1680	84	□□□□=1680	
1760	88	□□□□=1760	
1840	92		
1920	96	□□□□=1920	
2080	104	□□□□=2080	
2280	114	□□□□=2280	
2480	124	□□□=2480	

Arm/Leg Protection

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

Body Protection

Protective height (mm)	Number of beams	3
280	4	
440	6	
600	8	
760	10	
920	12	

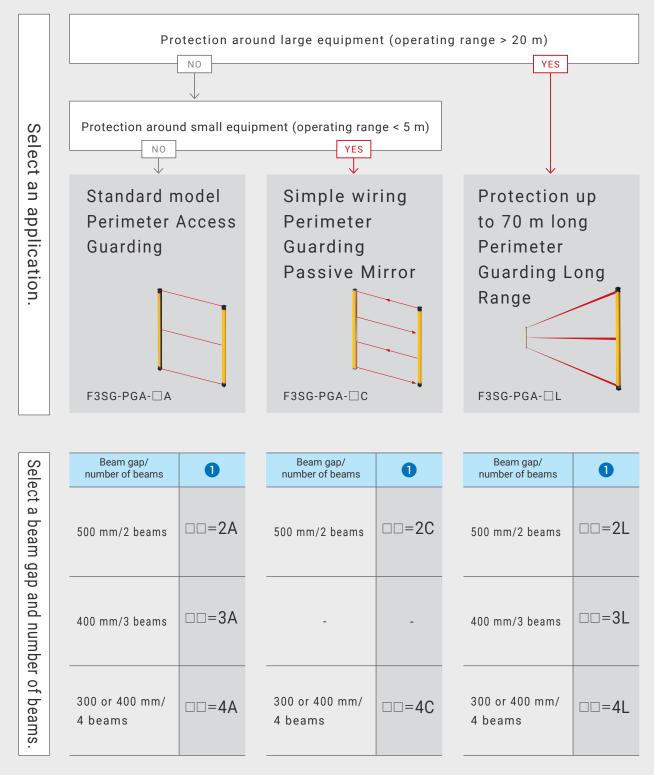
* Flexible height model (Increments of 40 mm)

Protection around perimeters of equipment





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

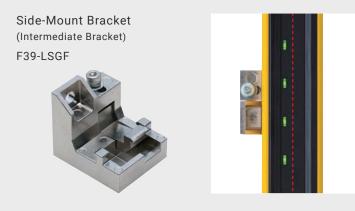


2 Select Product length.

Product length (mm)	Number of beams	2
670	2	=0670
970	3	= 0 970
1070	4	=1070
1370	4	□□□□=1370

STEP 2 Choose an optional mounting bracket (sold separately)

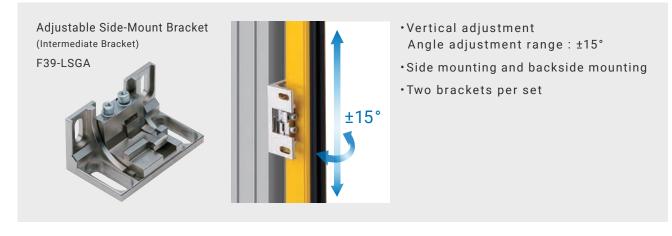
Brackets used when beam adjustment is not required after the light curtain is installed



- •Side mounting and backside mounting
- •Beams not adjustable after installation
- $\boldsymbol{\cdot} \mathsf{Two} \text{ brackets per set}$

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

Brackets that allow beam adjustment after the light curtain is installed



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



- •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

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

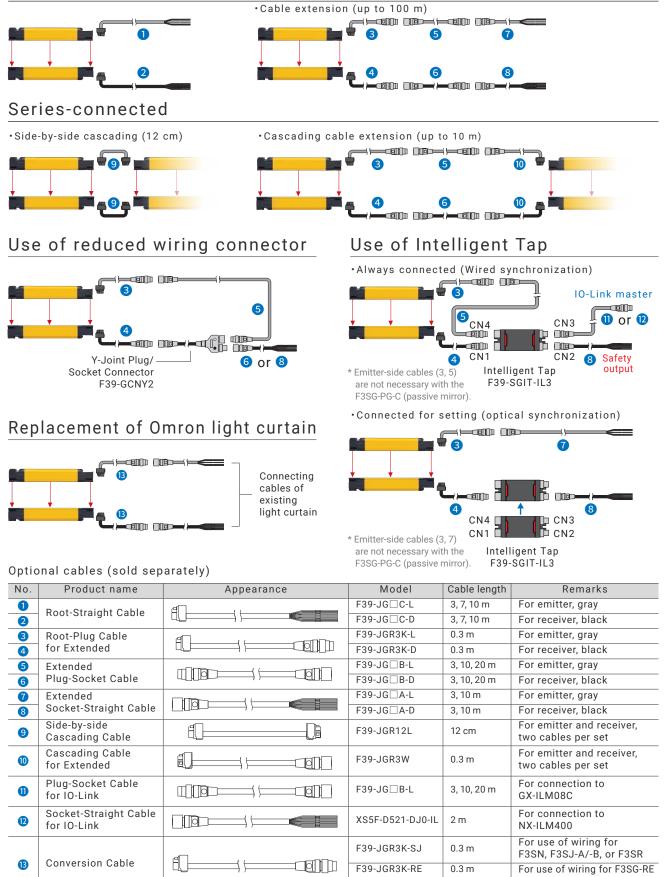
Adjustable Top/Bottom Bracket MS4800/F3SR Adapter

F39-LSGTB-MS



STEP 3 Choose a wiring method

One light curtain * Emitter-side cables (1, 3, 5, 7) are not necessary with the F3SG-PG-C (passive mirror).



F39-JGR3K-MS

0.3 m

For use of wiring for MS4800

STEP 4 Choose the optional accessories (sold separately) 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



Bluetooth® Communication Unit F39-SGBT



Configuration tool for PC SD Manager 3

Note : Use the SD Manager 3 with the F39-SGIT-IL3 Intelligent Tap.

Monitoring tool for smartphones SD Manager 3 Mobile APP

Requirements Android 7.0 or higher

For details, refer to your local Omron website.



Reduced wiring system

Simple wiring of light curtains and reset switches



Muting system

Easy installation and wiring of muting sensors

Muting Sensor Arm Mounter

F39-FMA 🗌 🗌 🗌 T (Through-beam)

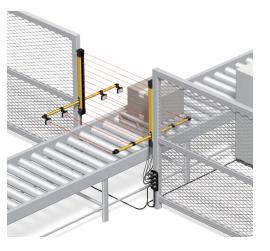
F39-FMA R (Retro-reflective)

Muting Sensor Connection Box F39-GCN5

Muting Sensor Arm Mounter Bracket for SLC F39-LMAF1 (The E3Z Muting Sensor is sold separately.)





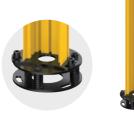


Floor mount system

Easy installation of light curtains and mirrors on floors

Floor Mount Column F39-ST

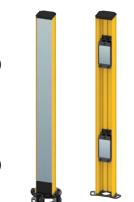
Mount-Column Adjustable Base F39-STB



(The Safety light curtain is sold separately.)

Mirror Column (For F3SG-SR/PG Safety Light Curtain/ Safety Multi-Light Beam) F39-SML

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



(The mount-column adjustable base is sold separately.)

Laser Alignment Pointer

Easy beam adjustment with laser beam

F39-PTS



F39-PTG



Spatter Protection Cover

Protection of optical surfaces against spatter

F39-HSG

Lamp

At-a-glance check of light curtain status

F39-SGLP

Note: The Lamp does not support Bluetooth® communication.



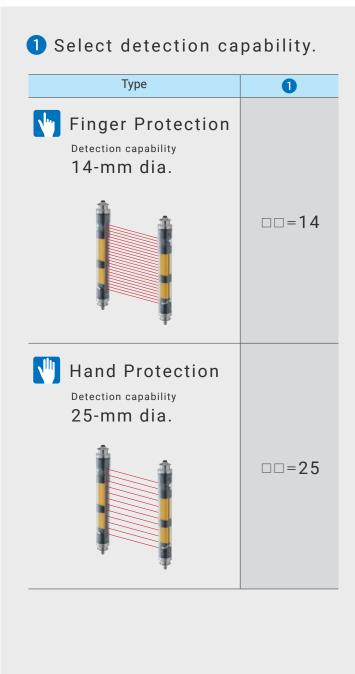
Protection in high-pressure wash-down environments



Complete the model number.



STEP 1 Choose a safety light curtain Select detection capability and protective height.



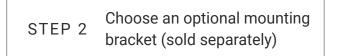
2 Select protective height.

Finger Protection

Protective	Number of	•
height (mm)	beams	2
320	31	
400	39	$\square \square \square \square = 0400$
480	47	
560	55	
640	63	0640
720	71	
800	79	
880	87	
960	95	
1000	99	
1200	119	
1400	139	
1600	159	
1800	179	

Hand Protection

Protective height (mm)	Number of beams	8
320	16	
400	20	
480	24	
560	28	
640	32	
720	36	
800	40	
880	44	
960	48	
1000	50	
1040	52	
1120	56	
1200	60	
1280	64	
1360	68	
1440	72	
1520	76	
1600	80	
1680	84	
1760	88	
1840	92	



IP69K Model Mounting Bracket

F39-LSGTB-K Two brackets per set



For details of mounting brackets, refer to the F3SG-SR/PG Datasheet.

Note: When connecting F3SG-SR-K with open-ended cable to the intelligent tap, use a relay terminal block. Read the User's Manual (Cat .No. Z405) before using the intelligent tap for setting and monitoring.



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Datasheet

Introduction of safety component catalogs



Safety Light Curtain/ Safety Multi-Light Beam F3SG-SR/PG

Cat. No. F117



IO-Link Products IO-Link Series

Cat. No. Y229



Safety Controller G9SP

Cat. No. F090



NX-series Safety Controller CIP Safety System

Cat. No. F104

Note: Do not use this document to operate the Unit.

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