

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

Easy to monitor and ready for IoT

- Conforms to major international standards
- Environmental resistance and rugged structure for use in various environments (IP67, IP67G*1, IP69K*2)
- A broad line-up, from finger protection to body protection
- Flexible height model for easy integration into machines and lines
- IoT ready via IO-Link

*1. IEC 60529/JIS C 0920 Annex 1
*2. Available with the F3SG-SR-K IP69K Model.



For the most recent information on models that have been certified for safety standards, refer to your local OMRON website.

Key Features

Feature	Availability						Setting/monitoring by				Factory default setting
	F3SG-SRA	F3SG-SRB	F3SG-PGA	F3SG-PG-L	F3SG-PG-C	F3SG-SRB-K	Sensor		Intelligent Tap	PC/Smartphone	
							Wiring	End Cap	DIP Switch #1	SD Manager 3/ SD Manger 3 Mobile APP #2	
Mutual interference prevention	X	X	X	X	X	X*6	X*4	X*4	---	---	Code A *4
PNP/NPN selection	X	X	X	X	X	X	X	---	---	---	---
External test	X	X	X	X	X	X	X	---	---	---	---
Interlock	X	X	X	X	X	X	---	---	X	X	Start/Restart Interlock Disabled (Auto Reset)
Pre-reset	X	X	X	X	X	X	---	---	X	X	Disabled
PSDI	X	X	---	---	---	X	---	---	---	X	Disabled
External Device Monitoring (EDM)	X	X	X	X	X	X	---	---	X	X	Disabled
Auxiliary output	X	X	X	X	X	X	---	---	---	X	Safety output information (Inverted signal output: Enabled)
Muting	X	X	X	X	X	X	---	---	---	X	Enabled (Standard Muting)
Override	X	X	X	X	X	X	---	---	---	X	Enabled
Fixed blanking	X	X	---	---	---	X	---	---	X	X	Disabled
Floating blanking	X	X	---	---	---	X	---	---	X	X	Disabled
Reduced resolution	X	X	---	---	---	X	---	---	---	X	Disabled
Warning zone	X	X	---	---	---	---	---	---	---	X	Disabled
Operating range selection	X	X	---	X	---	X	X	---	X	X	Long *5
Response time adjustment	X	X	X	X	X	X	---	---	---	X	Normal
Area Beam Indicator (ABI)	X	---	X	X	X	---	---	---	---	X	Block/Unblock information
Designated beam output	X	X	X	X	X	X	---	---	---	X	Disabled
Stable light threshold adjustment	X	X	X	X	X	X	---	---	---	X	170%
Light Level Monitoring/ Interference Light Display	X	X	X	X	X	X	---	---	---	X	---
Maintenance information	X	X	X	X	X	X	---	---	---	X	---
Operation status monitoring	X	X	X	X	X	X	---	---	---	X	---
Instantaneous block detection information	X	X*7	X	X	X	---	---	---	---	X	Enabled

*1. DIP Switch is on the F39-SGIT-IL3 Intelligent Tap.
*2. The F39-SGIT-IL3 Intelligent Tap is necessary to use the SD Manager 3 or SD Manager 3 Mobile APP.
*3. Mutual interference can be prevented by Optical Synchronization or Wired Synchronization.
*4. Mutual interference can be prevented by Scan Code Selection.
*5. In the case of setting by DIP Switch or SD Manager 3. For the setting by wiring, it is selectable from the Long and Short modes.
*6. Mutual interference cannot be prevented using the End Cap. The scan code is fixed to Code A.
*7. The F3SG-SRB does not record vibration.

F3SG-SR/PG

F3SG-SR-K

F3SG-SR and F3SG-PG
Common to

F3SG-SR/PG

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Safety Light Curtain F3SG-SR Series IP69K Model

F3SG-SR-K

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Common to Safety Light Curtain and Safety Multi-Light Beam

Common to F3SG-SR and F3SG-PG

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F3SG-SR/PG

Model Number Legend

Safety Light Curtain F3SG-SR

F3SG-4SR - -

(1) (2) (3) (4) (5)

* For details on the IP69K model, refer to page 72.

No.	Classification	Code	Meaning	Remarks
(1)	ESPE	4	Type 4	
(2)	Function	A	Advanced	
		B	Standard	
(3)	Protective height	0160 - 2000	Protective height for finger protection (mm)	
		0160 - 2480	Protective height for hand protection (mm)	
		0240 - 1520	Protective height for arm/leg protection (mm)	
		0280 - 0920	Protective height for body protection (mm)	
(4)	Detection capability	14	Finger protection (Detection capability: 14-mm dia.)	
		25	Hand protection (Detection capability: 25-mm dia.)	
		45	Arm/leg protection (Detection capability: 45-mm dia.)	
		85	Body protection (Detection capability: 85-mm dia.)	
(5)	Option	Blank		
		F	Flexible height model	Finger protection and hand protection: Protective heights are available in increments of 40 mm up to 1 m

- Note:**
- The purpose of this model number legend is to provide understanding of the meaning of specifications from the model number. Models are not available for all combinations of code numbers. See *Ordering Information* on page 5 for details.
 - The bracket is not included. Order brackets sold separately.
 - Connection cables are not included with the safety light curtain. Order cables sold separately.

F3SG-SR/PG

F3SG-SR-K

F3SG-SR and F3SG-PG Common to

Safety Multi-Light Beam F3SG-PG

F3SG-4PG A □□□□ - □ □
 (1) (2) (3) (4) (5)

No.	Classification	Code	Meaning	Remarks
(1)	ESPE	4	Type 4	
(2)	Function	A	Advanced	
(3)	Product length	0670	Product length (mm)	
		0970		
		1070		
		1370		
(4)	Number of beams/ beam gap	2	2 beams/500 mm	Product length: 670 mm
		3 *	3 beams/400 mm	Product length: 970 mm * Not available for Perimeter guarding passive mirror
		4	4 beams/300 or 400 mm	Product length: 1,070 or 1,370 mm
(5)	Application	A	Perimeter access guarding	
		L	Perimeter guarding long range	
		C	Perimeter guarding passive mirror	

- Note: 1.** The purpose of this model number legend is to provide understanding of the meaning of specifications from the model number. Models are not available for all combinations of code numbers. See *Ordering Information* on page 7 for details.
- 2.** The bracket is not included. Order brackets sold separately.
- 3.** Connection cables are not included with the safety multi-light beam. Order cables sold separately.

Ordering Information

Main Units

Safety Light Curtain F3SG-SR

Finger protection (Detection capability: 14-mm dia.)

Number of beams	Protective height (mm)	Advanced	Standard
		Model	Model
15	160	F3SG-4SRA0160-14	F3SG-4SRB0160-14
19	200	F3SG-4SRA0200-14-F	F3SG-4SRB0200-14-F
23	240	F3SG-4SRA0240-14	F3SG-4SRB0240-14
27	280	F3SG-4SRA0280-14-F	F3SG-4SRB0280-14-F
31	320	F3SG-4SRA0320-14	F3SG-4SRB0320-14
35	360	F3SG-4SRA0360-14-F	F3SG-4SRB0360-14-F
39	400	F3SG-4SRA0400-14	F3SG-4SRB0400-14
43	440	F3SG-4SRA0440-14-F	F3SG-4SRB0440-14-F
47	480	F3SG-4SRA0480-14	F3SG-4SRB0480-14
51	520	F3SG-4SRA0520-14-F	F3SG-4SRB0520-14-F
55	560	F3SG-4SRA0560-14	F3SG-4SRB0560-14
59	600	F3SG-4SRA0600-14-F	F3SG-4SRB0600-14-F
63	640	F3SG-4SRA0640-14	F3SG-4SRB0640-14
67	680	F3SG-4SRA0680-14-F	F3SG-4SRB0680-14-F
71	720	F3SG-4SRA0720-14-F	F3SG-4SRB0720-14-F
75	760	F3SG-4SRA0760-14-F	F3SG-4SRB0760-14-F
79	800	F3SG-4SRA0800-14	F3SG-4SRB0800-14
83	840	F3SG-4SRA0840-14-F	F3SG-4SRB0840-14-F
87	880	F3SG-4SRA0880-14-F	F3SG-4SRB0880-14-F
91	920	F3SG-4SRA0920-14-F	F3SG-4SRB0920-14-F
95	960	F3SG-4SRA0960-14-F	F3SG-4SRB0960-14-F
99	1,000	F3SG-4SRA1000-14	F3SG-4SRB1000-14
119	1,200	F3SG-4SRA1200-14	F3SG-4SRB1200-14
139	1,400	F3SG-4SRA1400-14	F3SG-4SRB1400-14
159	1,600	F3SG-4SRA1600-14	F3SG-4SRB1600-14
179	1,800	F3SG-4SRA1800-14	F3SG-4SRB1800-14
199	2,000	F3SG-4SRA2000-14	F3SG-4SRB2000-14

F3SG-SR/PG

F3SG-SR-K

Common to
F3SG-SR and F3SG-PG

F3SG-SR/PG

Hand protection (Detection capability: 25-mm dia.)

Number of beams	Protective height (mm)	Advanced	Standard
		Model	Model
8	160	F3SG-4SRA0160-25	F3SG-4SRB0160-25
10	200	F3SG-4SRA0200-25-F	F3SG-4SRB0200-25-F
12	240	F3SG-4SRA0240-25	F3SG-4SRB0240-25
14	280	F3SG-4SRA0280-25-F	F3SG-4SRB0280-25-F
16	320	F3SG-4SRA0320-25	F3SG-4SRB0320-25
18	360	F3SG-4SRA0360-25-F	F3SG-4SRB0360-25-F
20	400	F3SG-4SRA0400-25	F3SG-4SRB0400-25
22	440	F3SG-4SRA0440-25-F	F3SG-4SRB0440-25-F
24	480	F3SG-4SRA0480-25	F3SG-4SRB0480-25
26	520	F3SG-4SRA0520-25-F	F3SG-4SRB0520-25-F
28	560	F3SG-4SRA0560-25	F3SG-4SRB0560-25
30	600	F3SG-4SRA0600-25-F	F3SG-4SRB0600-25-F
32	640	F3SG-4SRA0640-25	F3SG-4SRB0640-25
34	680	F3SG-4SRA0680-25-F	F3SG-4SRB0680-25-F
36	720	F3SG-4SRA0720-25	F3SG-4SRB0720-25
38	760	F3SG-4SRA0760-25-F	F3SG-4SRB0760-25-F
40	800	F3SG-4SRA0800-25	F3SG-4SRB0800-25
42	840	F3SG-4SRA0840-25-F	F3SG-4SRB0840-25-F
44	880	F3SG-4SRA0880-25	F3SG-4SRB0880-25
46	920	F3SG-4SRA0920-25-F	F3SG-4SRB0920-25-F
48	960	F3SG-4SRA0960-25	F3SG-4SRB0960-25
50	1,000	F3SG-4SRA1000-25-F	F3SG-4SRB1000-25-F
52	1,040	F3SG-4SRA1040-25	F3SG-4SRB1040-25
56	1,120	F3SG-4SRA1120-25	F3SG-4SRB1120-25
60	1,200	F3SG-4SRA1200-25	F3SG-4SRB1200-25
64	1,280	F3SG-4SRA1280-25	F3SG-4SRB1280-25
68	1,360	F3SG-4SRA1360-25	F3SG-4SRB1360-25
72	1,440	F3SG-4SRA1440-25	F3SG-4SRB1440-25
76	1,520	F3SG-4SRA1520-25	F3SG-4SRB1520-25
80	1,600	F3SG-4SRA1600-25	F3SG-4SRB1600-25
84	1,680	F3SG-4SRA1680-25	F3SG-4SRB1680-25
88	1,760	F3SG-4SRA1760-25	F3SG-4SRB1760-25
92	1,840	F3SG-4SRA1840-25	F3SG-4SRB1840-25
96	1,920	F3SG-4SRA1920-25	F3SG-4SRB1920-25
104	2,080	F3SG-4SRA2080-25	F3SG-4SRB2080-25
114	2,280	F3SG-4SRA2280-25	F3SG-4SRB2280-25
124	2,480	F3SG-4SRA2480-25	F3SG-4SRB2480-25

Arm/Leg protection (Detection capability: 45-mm dia.)

Number of beams	Protective height (mm)	Advanced	Standard
		Model	Model
6	240	F3SG-4SRA0240-45	F3SG-4SRB0240-45
10	400	F3SG-4SRA0400-45	F3SG-4SRB0400-45
14	560	F3SG-4SRA0560-45	F3SG-4SRB0560-45
18	720	F3SG-4SRA0720-45	F3SG-4SRB0720-45
22	880	F3SG-4SRA0880-45	F3SG-4SRB0880-45
30	1,200	F3SG-4SRA1200-45	F3SG-4SRB1200-45
38	1,520	F3SG-4SRA1520-45	F3SG-4SRB1520-45

Body protection (Detection capability: 85-mm dia.)

Number of beams	Protective height (mm)	Advanced	Standard
		Model	Model
4	280	F3SG-4SRA0280-85	F3SG-4SRB0280-85
6	440	F3SG-4SRA0440-85	F3SG-4SRB0440-85
8	600	F3SG-4SRA0600-85	F3SG-4SRB0600-85
10	760	F3SG-4SRA0760-85	F3SG-4SRB0760-85
12	920	F3SG-4SRA0920-85	F3SG-4SRB0920-85

Safety Multi-Light Beam F3SG-PG

Perimeter access guarding (Beam gap: 300 to 500 mm)

Number of beams	Beam gap (mm)	Product length (mm)	Advanced
			Model
2	500	670	F3SG-4PGA0670-2A
3	400	970	F3SG-4PGA0970-3A
4	300	1,070	F3SG-4PGA1070-4A
4	400	1,370	F3SG-4PGA1370-4A

Perimeter guarding long range (Beam gap: 300 to 500 mm)

Number of beams	Beam gap (mm)	Product length (mm)	Advanced
			Model
2	500	670	F3SG-4PGA0670-2L
3	400	970	F3SG-4PGA0970-3L
4	300	1,070	F3SG-4PGA1070-4L
4	400	1,370	F3SG-4PGA1370-4L

Perimeter guarding passive mirror (Beam gap: 300 to 500 mm)

Number of beams	Beam gap (mm)	Product length (mm)	Advanced
			Model
2	500	670	F3SG-4PGA0670-2C
4	300	1,070	F3SG-4PGA1070-4C
4	400	1,370	F3SG-4PGA1370-4C

F3SG-SR/PG

Accessories (Sold separately)

Bracket Common to F3SG-SR and F3SG-PG

Side mounting and backside mounting are possible.

For fixed mounting

Appearance	Type	Application/Specifications	Model
	Standard Bracket (Intermediate Bracket)	Bracket to mount the F3SG-SR/PG. Side mounting and backside mounting possible. Beam alignment after mounting of F3SG-SR/PG not possible. Two brackets per set (See * below for the number of sets required for each model.)	F39-LSGF

* Protective height of 0160 to 1440: 2 set (4 brackets), protective height of 1520 to 2480: 3 sets (6 brackets)

The bracket allows beam adjustment after the F3SG-SR/PG is mounted on it.

For angle adjustment mounting

Appearance	Type	Application/Specifications	Model
	Adjustable Side-Mount Bracket (Intermediate Bracket)	The angle adjustment range is $\pm 15^\circ$. Two brackets per set (See *1 below for the number of sets required for each model.)	F39-LSGA
	Adjustable Top/Bottom Bracket F3SJ, F3SN Adapter	Use this bracket at the top and bottom positions of the F3SG-SR/PG. The angle adjustment range is $\pm 22.5^\circ$. Use this bracket when replacing an existing F3SJ or F3SN Safety Light Curtain. Two brackets per set (See *2 below for the number of sets required for each model.)	F39-LSGTB-SJ
	Adjustable Top/Bottom Bracket F3SG-RA/RE Adapter	Use this bracket at the top and bottom positions of the F3SG-SR/PG. The angle adjustment range is $\pm 22.5^\circ$. Use this bracket when replacing an existing F3SG-RA/RE Safety Light Curtain. Two brackets per set (See *2 below for the number of sets required for each model.)	F39-LSGTB-RE
	Adjustable Top/Bottom Bracket MS4800, F3SR Adapter	Use this bracket at the top and bottom positions of the F3SG-SR/PG. The angle adjustment range is $\pm 22.5^\circ$. Use this bracket when replacing an existing MS4800 or F3SR Safety Light Curtain. Two brackets per set (See *2 below for the number of sets required for each model.)	F39-LSGTB-MS


*1. Protective height of 0160 to 0280: 1 set (2 brackets), protective height of 0320 to 1440: 2 sets (4 brackets), protective height of 1520 to 2480: 3 sets (6 brackets)

*2. Using Adjustable Top/Bottom Brackets with Side-Mount Brackets (Intermediate Brackets) or Adjustable Side-Mount Brackets (Intermediate Brackets)
Protective height of 0840 or less:
The Side-Mount Bracket (Intermediate Bracket) or Adjustable Side-Mount Bracket (Intermediate Bracket) is not required. Use 2 sets of Adjustable Top/Bottom Brackets.
Protective height of 0880 to 1680:
Use 2 sets of Adjustable Top/Bottom Brackets and 1 set of Side-Mount Brackets (Intermediate Brackets) or Adjustable Side-Mount Brackets (Intermediate Brackets).
Protective height of 1760 to 2480:
Use 2 sets of Adjustable Top/Bottom Brackets and 2 sets of Side-Mount Brackets (Intermediate Brackets) or Adjustable Side-Mount Brackets (Intermediate Brackets).
Refer to *Dimensions* on page 37 and following.

Connecting Cable Common to F3SG-SR and F3SG-PG




[Root Cable]

Root-Straight Cable

Appearance	Type	Specifications	Cable length	Model															
	For emitter To sensors: dedicated connector, To external: open-ended type 5 wires Color: Gray	<table border="1"> <tr><td>Brown</td><td>24V/0V</td></tr> <tr><td>Black</td><td>TEST</td></tr> <tr><td>Blue</td><td>0V/24V</td></tr> <tr><td>White</td><td>COM(+)</td></tr> <tr><td>Yellow</td><td>OPERATING RANGE SELECT INPUT/COM(-)</td></tr> </table> IP67 and IP67G (JIS C 0920 Annex 1) rated when mated.	Brown	24V/0V	Black	TEST	Blue	0V/24V	White	COM(+)	Yellow	OPERATING RANGE SELECT INPUT/COM(-)	3 m	F39-JG3C-L					
		Brown	24V/0V																
		Black	TEST																
	Blue	0V/24V																	
	White	COM(+)																	
	Yellow	OPERATING RANGE SELECT INPUT/COM(-)																	
7 m	F39-JG7C-L																		
10 m	F39-JG10C-L																		
For receiver or emitter/receiver of F3SG-PG Perimeter Guarding Passive Mirror To sensors: dedicated connector, To external: open-ended type 8 wires Color: Black	<table border="1"> <tr><td>Yellow</td><td>RESET/EDM</td></tr> <tr><td>Brown</td><td>24V/0V</td></tr> <tr><td>Gray</td><td>MUTE A/PRE-RESET/PSDI/COM(+)</td></tr> <tr><td>Pink</td><td>MUTE B/COM(-)</td></tr> <tr><td>Black</td><td>OSSD 1</td></tr> <tr><td>White</td><td>OSSD 2</td></tr> <tr><td>Blue</td><td>0V/24V</td></tr> <tr><td>Red</td><td>AUX</td></tr> </table> IP67 and IP67G (JIS C 0920 Annex 1) rated when mated.	Yellow	RESET/EDM	Brown	24V/0V	Gray	MUTE A/PRE-RESET/PSDI/COM(+)	Pink	MUTE B/COM(-)	Black	OSSD 1	White	OSSD 2	Blue	0V/24V	Red	AUX	3 m	F39-JG3C-D
	Yellow	RESET/EDM																	
	Brown	24V/0V																	
Gray	MUTE A/PRE-RESET/PSDI/COM(+)																		
Pink	MUTE B/COM(-)																		
Black	OSSD 1																		
White	OSSD 2																		
Blue	0V/24V																		
Red	AUX																		
7 m	F39-JG7C-D																		
10 m	F39-JG10C-D																		

Note: Cables are not included with the safety light curtain/safety multi-light beam.
 Order the F39-JG□C-□ Root-Straight Cable or F39-JGR3K-L-D Root-Plug Cable for Extended.

Root-Plug Cable for Extended

Appearance	Type	Specifications	Cable length	Model															
	For emitter To sensors: dedicated connector, To external: M12 connector type (5-pin) Color: Gray	<table border="1"> <tr><td>1 Brown</td><td>24V/0V</td></tr> <tr><td>2 Black</td><td>TEST</td></tr> <tr><td>3 Blue</td><td>0V/24V</td></tr> <tr><td>4 White</td><td>COM(+)</td></tr> <tr><td>5 Yellow</td><td>OPERATING RANGE SELECT INPUT/COM(-)</td></tr> </table> IP67 and IP67G (JIS C 0920 Annex 1) rated when mated.  Male	1 Brown	24V/0V	2 Black	TEST	3 Blue	0V/24V	4 White	COM(+)	5 Yellow	OPERATING RANGE SELECT INPUT/COM(-)	0.3 m	F39-JGR3K-L					
	1 Brown	24V/0V																	
2 Black	TEST																		
3 Blue	0V/24V																		
4 White	COM(+)																		
5 Yellow	OPERATING RANGE SELECT INPUT/COM(-)																		
For receiver or emitter/receiver of F3SG-PG Perimeter Guarding Passive Mirror To sensors: dedicated connector, To external: M12 connector type (8-pin) Color: Black	<table border="1"> <tr><td>1 Yellow</td><td>RESET/EDM</td></tr> <tr><td>2 Brown</td><td>24V/0V</td></tr> <tr><td>3 Gray</td><td>MUTE A/PRE-RESET/PSDI/COM(+)</td></tr> <tr><td>4 Pink</td><td>MUTE B/COM(-)</td></tr> <tr><td>5 Black</td><td>OSSD 1</td></tr> <tr><td>6 White</td><td>OSSD 2</td></tr> <tr><td>7 Blue</td><td>0V/24V</td></tr> <tr><td>8 Red</td><td>AUX</td></tr> </table> IP67 and IP67G (JIS C 0920 Annex 1) rated when mated.  Male	1 Yellow	RESET/EDM	2 Brown	24V/0V	3 Gray	MUTE A/PRE-RESET/PSDI/COM(+)	4 Pink	MUTE B/COM(-)	5 Black	OSSD 1	6 White	OSSD 2	7 Blue	0V/24V	8 Red	AUX	0.3 m	F39-JGR3K-D
1 Yellow	RESET/EDM																		
2 Brown	24V/0V																		
3 Gray	MUTE A/PRE-RESET/PSDI/COM(+)																		
4 Pink	MUTE B/COM(-)																		
5 Black	OSSD 1																		
6 White	OSSD 2																		
7 Blue	0V/24V																		
8 Red	AUX																		

Note: 1. Cables are not included with the safety light curtain/safety multi-light beam.
 Order the F39-JG□C-□ Root-Straight Cable or F39-JGR3K-L-D Root-Plug Cable for Extended.
 2. Use with the F39-JG□A-□ Extended Socket-Straight Cable or F39-JG□B-□ Extended Plug-Socket Cable.





F3SG-SR/PG

F3SG-SR-K

F3SG-SR and F3SG-PG
Common to

F3SG-SR/PG

[Extension Cable] Extended Socket-Straight Cable


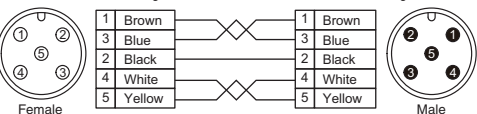

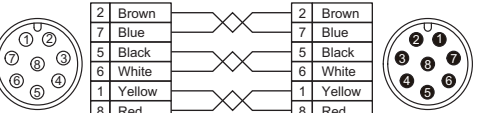
Appearance	Type	Specifications	Cable length	Model																								
	For emitter M12 connector (5-pin), 5 wires Color: Gray	Connected to root cable or Extended Plug-Socket Cable  <table border="1"> <tr><td>1</td><td>Brown</td><td>24V/0V</td></tr> <tr><td>2</td><td>Black</td><td>TEST</td></tr> <tr><td>3</td><td>Blue</td><td>0V/24V</td></tr> <tr><td>4</td><td>White</td><td>COM(+)</td></tr> <tr><td>5</td><td>Yellow</td><td>OPERATING RANGE SELECT INPUT/COM(-)</td></tr> </table> Female IP67* rated when mated.	1	Brown	24V/0V	2	Black	TEST	3	Blue	0V/24V	4	White	COM(+)	5	Yellow	OPERATING RANGE SELECT INPUT/COM(-)	3 m	F39-JG3A-L									
			1	Brown	24V/0V																							
			2	Black	TEST																							
			3	Blue	0V/24V																							
			4	White	COM(+)																							
5	Yellow	OPERATING RANGE SELECT INPUT/COM(-)																										
7 m	F39-JG7A-L																											
10 m	F39-JG10A-L																											
15 m	F39-JG15A-L																											
20 m	F39-JG20A-L																											
	For receiver or emitter/receiver of F3SG-PG Perimeter Guarding Passive Mirror M12 connector (8-pin), 8 wires Color: Black	Connected to root cable or Extended Plug-Socket Cable  <table border="1"> <tr><td>1</td><td>Yellow</td><td>RESET/EDM</td></tr> <tr><td>2</td><td>Brown</td><td>24V/0V</td></tr> <tr><td>3</td><td>Gray</td><td>MUTE A/PRE-RESET/PSDI/COM(+)</td></tr> <tr><td>4</td><td>Pink</td><td>MUTE B/COM(-)</td></tr> <tr><td>5</td><td>Black</td><td>OSSD 1</td></tr> <tr><td>6</td><td>White</td><td>OSSD 2</td></tr> <tr><td>7</td><td>Blue</td><td>0V/24V</td></tr> <tr><td>8</td><td>Red</td><td>AUX</td></tr> </table> Female IP67* rated when mated.	1	Yellow	RESET/EDM	2	Brown	24V/0V	3	Gray	MUTE A/PRE-RESET/PSDI/COM(+)	4	Pink	MUTE B/COM(-)	5	Black	OSSD 1	6	White	OSSD 2	7	Blue	0V/24V	8	Red	AUX	3 m	F39-JG3A-D
			1	Yellow	RESET/EDM																							
			2	Brown	24V/0V																							
			3	Gray	MUTE A/PRE-RESET/PSDI/COM(+)																							
			4	Pink	MUTE B/COM(-)																							
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6	White	OSSD 2																										
7	Blue	0V/24V																										
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7 m	F39-JG7A-D																											
10 m	F39-JG10A-D																											
15 m	F39-JG15A-D																											
20 m	F39-JG20A-D																											

* When the accessory is used, protect it from cutting oil.

Note: 1. Use with the F39-JGR3K-L/-D Root-Plug Cable for Extended.

2. To extend the cable length to more than 20 m, connect the F39-JG□B-□ Extended Plug-Socket Cable to the F39-JG□A-□ Extended Socket-Straight Cable.

Extended Plug-Socket Cable

Appearance	Type	Specifications	Cable length	Model
	For emitter M12 connector (5-pin) on both ends Color: Gray	Connected to Root-Plug Cable for Extended or Extended Plug-Socket Cable Connected to Extended Socket-Straight Cable or Extended Plug-Socket Cable  Female Male Twisted pair wires are brown and blue, and white and yellow. IP67* rated when mated.	0.5 m	F39-JGR5B-L
			1 m	F39-JG1B-L
			3 m	F39-JG3B-L
			5 m	F39-JG5B-L
			7 m	F39-JG7B-L
			10 m	F39-JG10B-L
			15 m	F39-JG15B-L
20 m	F39-JG20B-L			
	For receiver or emitter/receiver of F3SG-PG Perimeter Guarding Passive Mirror M12 connector (8-pin) on both ends Color: Black	Connected to Root-Plug Cable for Extended or Extended Plug-Socket Cable Connected to Extended Socket-Straight Cable or Extended Plug-Socket Cable  Female Male Twisted pair wires are brown and blue, black and white, yellow and red, and gray and pink. IP67* rated when mated.	0.5 m	F39-JGR5B-D
			1 m	F39-JG1B-D
			3 m	F39-JG3B-D
			5 m	F39-JG5B-D
			7 m	F39-JG7B-D
			10 m	F39-JG10B-D
			15 m	F39-JG15B-D
20 m	F39-JG20B-D			

* When the accessory is used, protect it from cutting oil.

Note: 1. Use with the F39-JGR3K-L/-D Root-Plug Cable for Extended.

2. To extend the cable length to more than 40 m, connect two or more F39-JG□B-□ Extended Plug-Socket Cable to the F39-JG□A-□ Extended Socket-Straight Cable.

Example: To extend the cable length to 50 m, connect two F39-JG20B-□ (20 m) Extended Plug-Socket Cables and one F39-JG10A-□ (10 m) Extended Socket-Straight Cable.

