OMRON Industrial Automation



F3SG-4PGA0670-2A

Safety Multi-Light Beam, F3SG-PG Perimeter Guarding, Type 4, 2 beams, range 0.5 to 20.0 m, Product length 670 mm, Active/active

Specifications

Sensing method	Safety multi-beam
Type of protection	Body protection
Number of beams	2
Safety field height	670 mm
Type of safety according to IEC 61496-1	4
Beam spacing	500 mm
Maximum safety range	20 m
Minimum operating distance	0.5 m
Key features	Active/active, Area Beam Indicator, Auxiliary output, Designated beam output, External Device Monitoring (EDM), External test, Interlock, Muting, Mutual interference prevention, PNP/NPN selection, Response time adjustment
Degree of protection (IP)	IP65/IP67
Cascadable	✖
Number of protected semiconductor outputs	2
Number of semiconductor outputs with signalling function	1
Type of switching output of the OSSD	PNP/NPN
Response time	8 ms
With muting function	✔
With beam coding	✔
Communication option(s)	Bluetooth, IO-Link, USB
Scope of delivery	Transmitter and receiver
Wavelength of the sensor	870 nm
Connection method	Root connector (order separately)
Max. output current at protected output	300 mA

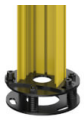
Ambient temperature	-30-55 °C
Number of fixed side-mount brackets	2
Number of adjustable side-mount brackets	2
Number of intermediate brackets	0

Accessories

	**E39-R1S**	Accessory photoeletric sensor, reflector, 40 x 60 x 7.5 mm, ABS & Acryllic
	**E3AS-F1000IPT-M1TJ 0.3M**	Photoelectric sensor, rectangular housing, plastic body, infrared laser class 1, time-of-flight, 1000 mm, PNP, Light-ON/Dark-ON, IO-Link COM3, M12 pigtail Smartclick connector, 0.3 m
	**E3AS-F1500IPT-M1TJ 0.3M**	Photoelectric sensor, rectangular housing, plastic body, infrared laser class 1, time-of-flight, 1500 mm, PNP, Light-ON/Dark-ON, IO-Link COM3, M12 pigtail Smartclick connector, 0.3 m
	**E3Z-R81 2M**	Photoelectric sensor, rectangular housing, red LED, retro-reflective, 4 m, PNP, Light-ON/Dark-ON, 2 m cable
	**E3Z-R81 5M**	Photoelectric sensor, rectangular housing, red LED, retro-reflective, 4 m, PNP, Light-ON/Dark-ON, 5 m cable
	**E3Z-T81 2M**	Photoelectric sensor, rectangular housing, infrared LED, through-beam, 15 m, PNP, Light-ON/Dark-ON, 2 m cable
	**E3Z-T81 5M**	Photoelectric sensor, rectangular housing, infrared LED, through-beam, 15 m, PNP, Light-ON/Dark-ON, 5 m cable
	**F39-FMA150R**	Muting sensor arm mounter for retroreflective sensor; length 150 mm (2 mounters per set)
	**F39-FMA150T**	Muting sensor arm mounter for through-beam sensor; length 150 mm (2 mounters per set)
	**F39-FMA400R**	Muting sensor arm mounter for retroreflective sensor; length 400 mm (2 mounters per set)

	**F39-FMA400T**	Muting sensor arm mounter for through-beam sensor; length 400 mm (2 mounters per set)
	**F39-GCN5**	Muting Sensor Connection Box for F3SG-SR/PG series
	**F39-GCNY2**	Safety sensor accessory, F3SG-R_SR, M12 Y-joint connector, 0.5 m
	**F39-GCNY3**	Safety sensor accessory, F3SG-R_SR, Reset Switch M12 Y-joint connector, 0.5 m
	**F39-JG10A-D**	Safety sensor accessory, F3SG-R Advanced, receiver cable M12 8-pin, female, 10 m
	**F39-JG10A-L**	Safety sensor accessory, F3SG-R Advanced, emitter cable M12 5-pin, female, 10 m
	**F39-JG10B-D**	Safety sensor accessory, F3SG-R Advanced, receiver extension cable M12 8-pin, male/female, 10 m
	**F39-JG10B-L**	Safety sensor accessory, F3SG-R Advanced, emitter extension cable M12 5-pin, male/female, 10 m
	**F39-JG10C-D**	Root-straight cable 10 m for F3SG-SR (cable for receiver with dedicated connector - Black)
	**F39-JG10C-L**	Root-straight cable 10 m for F3SG-SR (cable for emitter with dedicated connector - Gray)
	**F39-JG20B-D**	Safety sensor accessory, F3SG-R Advanced, receiver extension cable M12 8-pin, male/female, 20 m
	**F39-JG20B-L**	Safety sensor accessory, F3SG-R Advanced, emitter extension cable M12 5-pin, male/female, 20 m
	**F39-JG3A-D**	Safety sensor accessory, F3SG-R Advanced, receiver cable M12 8-pin, female, 3 m
	**F39-JG3A-L**	Safety sensor accessory, F3SG-R Advanced, emitter cable M12 5-pin, female, 3 m

	**F39-JG3B-D**	Safety sensor accessory, F3SG-R Advanced, receiver extension cable M12 8-pin, male/female, 3 m
	**F39-JG3B-L**	Safety sensor accessory, F3SG-R Advanced, emitter extension cable M12 5-pin, male/female, 3 m
	**F39-JG3C-D**	Root-straight cable 3 m for F3SG-SR (cable for receiver with dedicated connector - Black)
	**F39-JG3C-L**	Root-straight cable 3 m for F3SG-SR (cable for emitter with dedicated connector - Gray)
	**F39-JG7C-D**	Root-straight cable 7 m for F3SG-SR (cable for receiver with dedicated connector - Black)
	**F39-JG7C-L**	Root-straight cable 7 m for F3SG-SR (cable for emitter with dedicated connector - Gray)
	**F39-JGR3K-D**	Root-Plug cable for extended set 0.3 m for F3SG-4SR (cable for receiver - black)
	**F39-JGR3K-L**	Root-Plug cable for extended set 0.3 m for F3SG-4SR (cable for emitter - gray)
	**F39-LITF1**	Intelligent Tap Bracket For DIN in Panel
	**F39-LMAF1**	Bracket for muting sensor arm mounter (2 units per set)
	**F39-LSGA**	Adjustable Side-Mount Bracket (2 brackets per set)
	**F39-LSGF**	Fixed Side-Mount Bracket (2 brackets per set)
	**F39-LSGTB-RE**	Adjustable top/bottom bracket set (2 pcs.) for F3SG-RA/ RE series
	**F39-LSGTB-SJ**	Adjustable top/bottom bracket set (2 pcs.) for F3SJ/ SN series

	**F39-PML0990-2**	Mirror column 990 mm for multibeam safety sensor F3SG-PG_A/L (2 beams)
	**F39-PTS**	Laser-alignment kit for F3SG-SR/PG Series
	**F39-SGBT**	Bluetooth Communication Unit for F39-SGIT-IL3
	**F39-SGIT-IL3**	Intelligent Tap unit for F3SG-SR/PG
	**F39-SGLP**	Safety sensor accessory, F3SG-SR/PG, lamp unit
	**F39-ST0990**	Floor mount column of 990 mm for F3SG-SR/PG; Protective Height up to 880 mm
	**F39-STB**	Mount-column adjustable base for F3SG-SR/PG
	**XS2G-D5S1**	Field assembly connector, M12 straight plug (male), 5-poles, A coded, screw connection, for cable diameters 5-6 mm
	**XS3W-M421-401-R**	Cable with connectors on both cable ends, M8 straight socket (female), M8 straight plug (male), 4-poles, PVC robot cable, IP67, 1 m
	**XS3W-M421-402-R**	Cable with connectors on both cable ends, M8 straight socket (female), M8 straight plug (male), 4-poles, PVC robot cable, IP67, 2 m
	**XS3W-M421-405-R**	Cable with connectors on both cable ends, M8 straight socket (female), M8 straight plug (male), 4-poles, PVC robot cable, IP67, 5 m
	**XS3W-M421-410-R**	Cable with connectors on both cable ends, M8 straight socket (female), M8 straight plug (male), 4-poles, PVC robot cable, IP67, 10 m
	**XS3W-M424-402-R**	Cable with connectors on both cable ends, M8 right-angle socket (female), M8 straight plug (male), 4-poles, PVC robot cable, IP67, 2 m
	**XS3W-M424-405-R**	Cable with connectors on both cable ends, M8 right-angle socket (female), M8 straight plug (male), 4-poles, PVC robot cable, IP67, 5 m

	**XS3W-M42C-4C2-A**	Cable with connectors on both cable ends, M8 straight socket (female), Smartclick M12 straight plug (male), 4-poles, PVC standard cable, IP67, 0.2 m
	**XS5F-D421-C80-F**	Sensor cable, Smartclick M12 straight socket (female), 4-poles, A coded, PVC fire-retardant robot cable, IP67, 1 m
	**XS5F-D421-D80-F**	Sensor cable, Smartclick M12 straight socket (female), 4-poles, A coded, PVC fire-retardant robot cable, IP67, 2 m
	**XS5F-D421-E80-F**	Sensor cable, Smartclick M12 straight socket (female), 4-poles, A coded, PVC fire-retardant robot cable, IP67, 3 m
	**XS5F-D421-G80-F**	Sensor cable, Smartclick M12 straight socket (female), 4-poles, A coded, PVC fire-retardant robot cable, IP67, 5 m
	**XS5F-D421-J80-F**	Sensor cable, Smartclick M12 straight socket (female), 4-poles, A coded, PVC fire-retardant robot cable, IP67, 10 m
	**XS5F-D421-L80-F**	Sensor cable, Smartclick M12 straight socket (female), 4-poles, A coded, PVC fire-retardant robot cable, IP67, 20 m
	**XS5F-D521-DJ0-IL**	IO-Link cable, Smartclick M12 straight socket (female), 5-poles, A coded, PVC, IP67, 2 m

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IO-Link IODD file

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

Datasheet

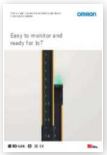
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F3SG-SR/PG Series

Users Manual

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

Brochure

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IO-Link Series

Brochure

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SD Manager 3 MobileApp V1.10

Software

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SD Manager 3 Set Up V1.20

Software

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Safety Component Selection Guide

Brochure

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Safety Solution Advanced Guide

Guide

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Safety Solution Basic Guide

Guide

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