



F3SG-4PGA0970-3A











Safety Multi-Light Beam, F3SG-PG Perimeter Guarding, Type 4, 3 beams, range 0.5 to 20.0 m, Product length 970 mm,
Active/active

Specifications

Sensing method	Safety multi-beam
Type of protection	Body protection
Number of beams	3
Safety field height	970 mm
Type of safety according to IEC 61496-1	4
Beam spacing	400 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	1

Accessories

	E39-R1S	Accessory photoelectric sensor, reflector, 40 x 60 x 7.5 mm, ABS & Acrylic
	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










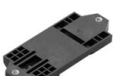





F39-JG3A-D







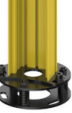







Safety sensor accessory, F3SG-R Advanced, receiver cable M12 8-pin, female, 3 m



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) M12,5 pin
	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-PML1310-3	Mirror column 1310 mm for multibeam safety sensor F3SG-PG_A/L (3 beams)
	F39-PTS	Laser-alignment kit for F3SG-SR/PG Series, Mountable from the front. This can be easily mounted and removed to/from the main unit, even as a set with the F39-ST.
	F39-SGBT	Bluetooth Communication Unit for F39-SGIT-IL3
	F39-SGIT-IL3	Intelligent Tap unit for F3SG-SR/PG
	F39-SGLP	The lamp can be connected to emitter, receiver, or emitter/receiver and turned ON based on the operation of F3SG-SR/PG. The lamp can indicate red, orange, and green colors, to which three different states can be assigned. IP67 * rated when mated.
	F39-ST1310	Floor mount column of 1310 mm for F3SG-SR/PG, protective height up to 1280 mm
	F39-STB	Mount-column adjustable base for F3SG-SR/PG Mounted to the floor mount column or mirror column. The angle and height of the column can be adjusted.
	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

CAD Library



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F39-SGIT-IL3 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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IO-Link Series Brochure

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SD Manager 3 MobileApp V1.10 Software

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