



F3SG-2SRB0160-25

Safety Light Curtain, F3SG-SRB Standard, Type 2, 25 mm resolution, range 0.3 to 20.0 m, height 160 mm, PNP/NPN

Specifications

Sensing method	Safety light curtain
Type of protection	Hand protection
Number of beams	8
Detection capability	25 mm
Safety field height	160 mm
Type of safety according to IEC 61496-1	2
Beam spacing	20 mm
Maximum safety range	20 m
Minimum operating distance	0.3 m
Key features	Auxiliary output, Blanking, Designated beam output, External Device Monitoring (EDM), External test, Interlock, Muting, Mutual interference prevention, Operating range selection, PNP/NPN selection, Pre-reset, Response time adjustment, Warning zone
Degree of protection (IP)	IP65/IP67/IP67G
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
Suitable for safety functions	✓
Scope of delivery	Transmitter and receiver

Wavelength of the sensor	870 nm
Connection method	Root connector (order separately)
Supply voltage DC	19.2-28.8 V
Max. output current at protected output	300 mA
Ambient temperature	-30-55 °C
Overall length of sensor	160 mm
Height of sensor	38 mm
Width of sensor	32 mm
Number of fixed side-mount brackets	2
Number of adjustable side-mount brackets	1
Number of intermediate brackets	0

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

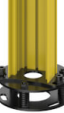


E3Z-T81 2M

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-JGR12L	Side-by-side Cascading Cable set 0.12 m for F3SG-4SR (2 cables per set, for emitter and receiver)
	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-JGR3W	Cascading cable for extended set 0.3 m for F3SG-4SR (2 cables per set, for emitter and receiver)

	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),Material: Zinc alloy
	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-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-SML0990	Mirror column 990 mm for Safety Light Curtain F3SG-SR/PG up to 880 mm
	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 Mounted to the floor mount column or mirror column. The angle and height of the column can be adjusted.
	F39-TRD25	Safety light curtain accessory, test rod, 25 mm for initial and daily checks and regular inspections. (Not included in the Safety Light Curtain delivery)

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

Datasheet

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F3SG-SR/PG Series Users Manual

EN PDF 68.5 MB



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Brochure

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IO-Link Series Brochure

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SD Manager 3 MobileApp V1.10 Software

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SDManager3_Setup_Version: Software

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Safety Solution Advanced Guide Guide

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Safety Solution Basic Guide

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