



F3SG-4SRB0280-25-F

Safety Light Curtain, F3SG-SRB Standard, Type 4, 25 mm resolution, range 0.3 to 20.0 m, height 280 mm, PNP/NPN

Specifications

Sensing method	Safety light curtain
Type of protection	Hand protection
Number of beams	14
Detection capability	25 mm
Safety field height	280 mm
Type of safety according to IEC 61496-1	4
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

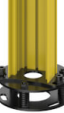
Wavelength of the sensor	870 nm
Connection method	Root connector (order separately)
Supply voltage DC	19.2-28.8 V
Max. output current at protected output	300 mA
Ambient temperature	-30-55 °C
Overall length of sensor	280 mm
Height of sensor	280 mm
Width of sensor	32 mm
Number of fixed side-mount brackets	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

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IO-Link Series Brochure

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