ODATALOGIC

SG BODY BIG BASE SG BODY BIG MUTING





Robust housing for harsh environments
Long operating range for perimeter control
Rapid solution for access control with muting
Easy installation and alignment

- 2, 3, 4 beams for body protection
- 40 mm resolution for arm protection and presence detection
- Controlled heights 500, 800, 900 and 1200 mm
- Long operating distance: up to 60 m
- Simple configuration through DIP switches
- Integrated muting lamp (only muting models)
- Anti-interference coding
- External muting enable signal
- · Edged or triggered muting dependent override

APPLICATIONS

- Automatic machines
- Robots
- Automatic assembly lines
- Palletizers and depalletizers
- Material handling

INDUSTRIES

- · Food & Beverage
- Metalworking
- Automotive
- Wood
- Ceramics

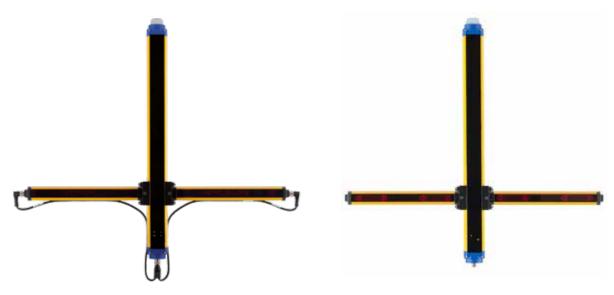
	FINGER	HAND	ARM	BODY	
Type 2				Х	
Type 4			X	Х	



TECHNICAL DATA

	SG2 BODY BIG BASE	SG2 BODY BIG MUTING [SG2-Bxxx-xxx-00-W-C]	SG4 BODY BIG BASE	SG4 BODY BIG MUTING	SG4 LONG RANGE BASE [SG4-40-xxx-00-E	
		GENERAL			1 [564-40-XXX-UU-E	
Type (EN61496-1-2)		2		4		
PL (EN ISO 13849-1)		С	e			
SIL (IEC 61508)		1	3			
Resolution	319,75 mm (4 beams) 419,75 mm (3 and 4 beams) 519,75 mm (2 beams)				40 mm	
Operating distance	0.5 60 m 0.5 60 m 0.5 60 m (Short Range model) 6 60 m (Long Range model)			6 60 m		
Retroreflective muting arms operating distance (not included)		0.5 3 m		0.5 3 m (Only for Short Range model)		
Emitter-Receiver muting arms operating distance		0.5 7 m		0.5 7 m		
Protected height	500 mm (2 beams) 800 mm (3 beams) 900 mm or 1200 (4 beams)				660 mm 960 mm 1260 mm	
		ELECTRICA	L DATA			
Power supply (Vdd)			24 Vdc ± 20%			
Outputs			2 PNP			
Output current	0.5 A max/each output					
Capacitive load			2,2 uF max at 25°C			
Response time	11 24 ms depending on model ^A			20 24 ms depending on model ^A		
Cables length (for power supply)	70 m max.					
		MECHANICAL AND ENV	IRONMENTAL DATA			
Operating temperature			0+55 °C			
Humidity	15 95 % (no condensation)					
Mechanical protection			IP 65 (EN 60529)			
		FUNCTI	ONS			
			Test input			
			Manual/Automatic restart	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
			xternal Device Monitoring (EDM)		
		T-Muting/L-Muting	Coding selection with DIP-SW	T-Muting/L-Muting		
		Muting timeout: 10 min. or ∞		Muting timeout: 10 min. or ∞		
		Integrated muting lamp		Integrated muting lamp		
		Override		Override		
		Muting enable input		Muting enable input		
		Override status output		Override status output		

 $^{^{\}rm A}\,{\rm For}$ detailed informations refer to related Product Datasheet or Manual



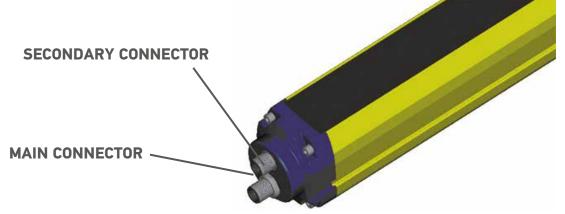
CONNECTIONS

M12, 5 poles, male 1 = brown = 24Vdc; 2 = white = TEST; 3 = blue = 0V; 4 = black = EARTH M12, 5 poles, male 1 = brown = 24Vdc; 3 = blue = 0VM12 12-pole connector 1 = Brown = 24Vdc; 2 = Blue = 0V; M12, 8 poles, male

1 = white = RESET/RESTART/RESTART MODE;

2 = brown = 24Vdc; 3 = green = EDM ENABLE;

4 = yellow = EDM; 5 = grey = OSSD1; 6 = pink = OSSD2; 3 = White = RESET/RESTART/RESTART MODE; 4 = Green = OVERRIDE 1; 5 = Pink = OSSD 2; 6 = Yellow = EDM; 7 = Black = MUTING ENABLE; 8 = Grey = OSSD 1; 9 = Red = OVERRIDE 2; 10 = Violet = LAMP OUTPUT; 7 = blue = 0V; 8 = red = EARTH11 = Grey-Pink = OVERRIDE STATUS; 12 = Red-Blue = EARTH M12, 5 poles, male 1 = brown = 24Vdc; 2 = white = MUTING2; 3 = blue = 0V; 4 = black = MUTING 1



ACCESSORIES

	SG BODY BIG BASE [SG2/4-Bx-xxx-00-E]	SG BODY BIG MUTING [SG2/4-Bxxx-xxx-00-W-C]	SG4 LONG RANGE BASE [SG4-40-xxx-00-E]		
	BRACKETS				
Included with the light curtain	None				
Standard angled brackets (4 pcs)		ST-K4STD-SG-B0DY BIG			
Rear fixing bracket mounting (4 pcs)		ST-K4REAR-SG BODY BIG			
Rotating brackets (4 pcs)		ST-K4ROT-SG BODY BIG			
Antivibration support (4 pcs/6 pcs) ^c		ST-K4AV ST-K6AV			
Plastic brackets (4 pcs/6 pcs) ^c		ST-KP4MP ST-KP6MP			
		PROTECTION TUBES, STANDS			
IP67/IP69K tubes					
Protective stands		SG-PSB series ^B			
Stand plate for SG-PSB	SG-P				
Protective stands mounting brackets (4 Pcs/6 pcs) ^c	ST-PS4-SG BODY ST-PS6-SG BODY				
Floor columns	SE-S Series				
		MIRRORS			
Protective stands with single mirrors	SG-PS	5M series			
Deviating mirrors mounting kit for SG-PSB		ST-PS-DM			
Deviating mirrors		SG-DM series			
Mirror mounting bracket	ST-DM				
	SAFETY UNIT				
Safety unit	SE-SR2				
Edm relay box ^d	CS ME-03VU24-Y14				
Safety control unit for single beams and SLC	SG-BWS-T4-MT				
	ALIGNMENT TOOL				
Laser pointer		SG-LP			
	ACCESSORIES FOR MUTING				
Muting arms, brackets and cables	See page 70				
Muting connection box ^d		SG-SRT-1			
External muting lamps		LMS series			

NOTES

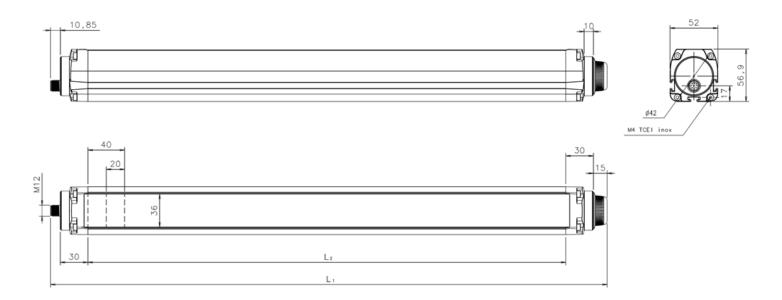
D When using EDM Relay Box or Muting connection box, connect EDM input, and be sure EDM function is active on the safety light curtain



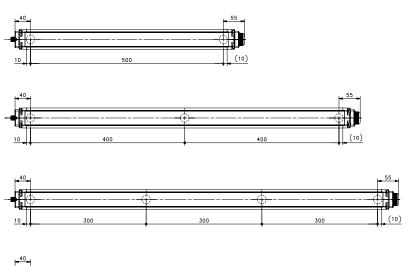
 $^{^{\}rm B}\,{\rm Not}$ possible with T or L muting arms mounted

 $^{^{\}text{C}}$ Use 6 brackets for light curtains with length \geq 1200 mm

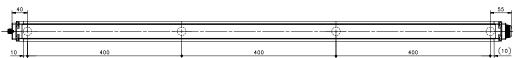
DIMENSIONS (MM)



DIMENSIONS (MM)



MODEL	L1 [mm]	L2 [mm]
SGx-B2-050-00-E	606,35	520,5
SGx-B3-080-00-E	906,35	820,5
SGx-B4-090-00-E	1006,35	920,5
SGx-B4-120-00-E	1306,35	1220,5
SG4-40-060-00-E	783,35	700,5
SG4-40-090-00-E	1083,35	1000,5
SG4-40-120-00-E	1383,35	1300,5
SGx-Byy2-050-00-W-C	609,35	520,5
SGx-Byy3-080-00-W-C	909,35	820,5
SGx-Byy4-090-00-W-C	1009,35	920,5
SGx-Byy4-120-00-W-C	1309,35	1220,5



INDICATORS



MODEL SELECTION AND ORDER INFORMATION

BODY PROTECTION				ARM PROTECTION PRESENCE	DETECTION
SG2 BODY BIG BASE [SG2-BX-XXX-00-E] SG2-B2-050-00-E	ORDER CODE	SG4-BX-XXX-00-E] SG4-B2-050-00-E	ORDER CODE	SG4 LONG RANGE BASE [SG4-40-XXX-00-E] SG4-40-060-00-E	ORDER CODE
	957851240	SG4-B2-050-00-E	957851280	SG4-40-060-00-E	957851570
SG2-B3-080-00-E SG2-B4-090-00-E SG2-B4-120-00-E	957851250	SG4-B3-080-00-E SG4-B4-090-00-E SG4-B4-120-00-F	957851290		957851580
SG2-B4-090-00-E	957851260	SG4-B4-090-00-E	957851300	SG4-40-090-00-E SG4-40-120-00-E	957851590
SG2-B4-120-00-E	957851270	SG4-B4-120-00-E	957851310		
SG2 BODY BIG MUTING [SG2-BXXX-XXX-00-W-C	ORDER C] CODE	SG4 BODY BIG MUTING [SG4-BXXX-XXX-00-W-C] SG4-BSR2-050-00-W-C	ORDER CODE		
SG2-B2-050-00-W-C	957851320	SG4-BSR2-050-00-W-C	957851400		
	957851330	SG4-BSR3-080-00-W-C SG4-BSR4-090-00-W-C	957851410		
SG2-B4-090-00-W-C	957851340	SG4-BSR4-090-00-W-C	957851420		
SG2-B4-120-00-W-C	957851350	SG4-BSR4-120-00-W-C	957851430		
<u> </u>		SG4-BLR2-050-00-W-C	957851360		
		SG4-BLR3-080-00-W-C	957851370		
		CC/ DLD/ 000 00 W C	957851380		
		SG4-BLR4-120-00-W-C	957851390		

CABLES

	TRANSMITTER CABLE (MAIN CONNECTOR)	LENGTH (m)	ORDER CODE
SG BODY BIG BASE	CS -A1-03-U-03	3	95ASE 1170
[SG2-Bx-xxx-00-E] [SG4-Bx-xxx-00-E]	CS -A1-03-U-05	5	95ASE 1180
SG4 LONG RANGE BASE	CS -A1-03-U-10	10	95ASE 1190
[SG4-40-xxx-00-E]	CS -A1-03-U-15	15	95ASE 1200
SG BODY BIG MUTING	CS -A1-03-U-25	25	95ASE 1210
[SG2-Bx-xxx-00-W-C] [SG4-Bxxx-xxx-00-W-C]	CS -A1-03-U-50	50	95A252700
	RECEIVER CABLE (MAIN CONNECTOR)	LENGTH (m)	ORDER CODE
SG BODY BIG BASE	CS -A1-06-U-03	3	95ASE1220
[SG2-Bx-xxx-00-E] [SG4-Bx-xxx-00-E]	CS -A1-06-U-05	5	95ASE1230
[SG4-Bx-xxx-00-E]	CS -A1-06-U-10	10	95ASE1240
	CS -A1-06-U-15	15	95ASE1250
SG4 LONG RANGE BASE [SG4-40-xxx-00-E]	CS -A1-06-U-25	25	95ASE1260
	CS -A1-06-U-50	50	95A252710
	CS -A1-10-U-03	3	95A252720
	CS -A1-10-U-05	5	95A252730
SG BODY BIG MUTING [SG2-Bx-xxx-00-W-C]	CS -A1-10-U-10	10	95A252740
[SG4-Bxxx-xxx-00-W-C]	CS -A1-10-U-15	15	95A252750
	CS -A1-10-U-25	25	95A252760
	CS -A1-10-U-50	50	95A252770
	TRANSMITTER CABLE (SECONDARY CONNECTOR) RECEIVER CABLE (SECONDARY CONNECTOR)	LENGTH (m)	ORDER CODE
SG BODY BIG MUTING	CS -A1-03-U-03	3	95ASE 1170
	CS -A1-03-U-05	5	95ASE 1180
	CS -A1-03-U-10	10	95ASE 1190
[SG2-Bx-xxx-00-W-C] [SG4-Bxxx-xxx-00-W-C]	CS -A1-03-U-15	15	95ASE 1200
	CS -A1-03-U-25	25	95ASE 1210
	CS -A1-03-U-50	50	95A252700
TES cables have axial connectors			

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