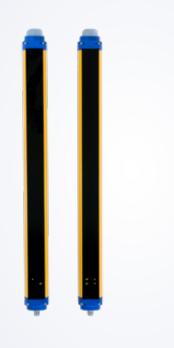
# SG BODY BIG BASE SG BODY BIG MUTING



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

			FINGER	HAND	ARM	BODY
Food & Beverage		Type 2				х
<ul><li>Metalworking</li><li>Automotive</li></ul>		Type 4			х	х
• Wood • Ceramics	SG2-B2-	050-0	<b>0</b> -E			
	ТҮРЕ	MONITORED HEIGH	Т	VERSION	l	
	2 Type 2 4 Type 4	050 500 mm (2 bea 080 800 mm (3 bea	· F		without function	
		090 900 mm (4 be	. W_C	Muting: w	th integrated function	
	BEAMS AND RANGE	120 1200 mm (4 be	ams)	muung	Junction	
B2	2 Beams					
B3	3 Beams				$1 \circ$	
B4	4 Beams	SG	4-4		61	U U -
BSR2	2 Beams Short Range (only type 4)					
BSR3	3 Beams Short Range (only type 4)					
BSR4	4 Beams Short Range (only type 4)			MONIT	DRED HEIGHT	
BLR2	2 Beams Long Range (only type 4)					
BLR3	3 Beams Long Range (only type 4)			060	660 mm	
BLR4	4 Beams Long Range (only type 4)			090	960 mm	
				120	1260 mm	



## TECHNICAL DATA

	SG2 BODY BIG BASE [SG2-Bx-xxx-00-E]			SG4 BODY BIG MUTING [SG4-Bxxx-xxx-00-W-C]	
		GENERAL	DATA		[304-40-222-00-6
Туре (ЕN61496-1-2)		2		4	
PL (EN ISO 13849-1)		с		е	
SIL (IEC 61508)		1		3	
Resolution		419,75 mm (3	n (4 beams) 8 and 4 beams) n (2 beams)		40 mm
Operating distance	0.5 60 m 0.5 60 m 6 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%		
Dutputs			2 PNP		
Dutput 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 depending on model				
Cables length (for power supply)	70 m max.				
• · · · · ·		MECHANICAL AND ENV			
Dperating temperature			0+55 °C		
lumidity			15 95 % (no condensation)		
Mechanical protection	IP 65 (EN 60529)				
Housing Material	Painted aluminium, PBT				
Window material			PMMA		
		FUNCTIO	Test input		
			Manual/Automatic restart		
		Ex	ternal Device Monitoring (EDM	)	
			Coding selection with DIP-SW	•	
		T-Muting/L-Muting		T-Muting/L-Muting	
		Muting timeout: 10 min. or $\infty$		Muting timeout: 10 min. or $\infty$	
		Integrated muting lamp		Integrated muting lamp	
		Override		Override	
		Muting enable input		Muting enable input	
		Override status output		Override status output	

NOTES

<sup>A</sup> For detailed informations refer to related Product Datasheet or Manual



#### CONNECTIONS

	SG BODY BIG BASE [SG2/4-Bx-xxx-00-E] SG4 LONG RANGE BASE [SG4-40-xxx-00-E]	SG BODY BIG MUTING [SG2/4-Bxxx-xxx-00-W-C]
	M12, 5 poles 1 = brown = 24Vdc; 2 = white = TEST; 3	;, male 3 = blue = 0V; 4 = black = EARTH
EMITTER MAIN CONNECTOR		
		M12, 5 poles, male 1 = brown = 24Vdc; 3 = blue = 0V
EMITTER SECONDARY CONNECTOR		
RECEIVER MAIN	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; 7 = blue = OV; 8 = red = EARTH	M12 12-pole connector 1 = Brown = 24Vdc; 2 = Blue = 0V; 3 = White = RESET/RESTART/RESTART MODE; 4 = Green = 0VERRIDE 1; 5 = Pink = 0SSD 2; 6 = Yellow = EDM; 7 = Black = MUTING ENABLE; 8 = Grey = 0SSD 1; 9 = Red = 0VERRIDE 2; 10 = Violet = LAMP OUTPUT; 11 = Grey-Pink = 0VERRIDE STATUS; 12 = Red-Blue = EARTH
		M12, 5 poles, male 1 = brown = 24Vdc; 2 = white = MUTING2; 3 = blue = 0V; 4 = black = MUTING 1
RECEIVER SECONDARY CONNECTOR		
	SECONDARY CONNECTOR	

#### ACCESSORIES

	SG BODY BIG BASE [SG2/4-Bx-xxx-00-E]	SG BODY BIG MUTING [SG2/4-Bxxx-xxx-00-W-C]			
		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-K4R0T-SG BODY BIG			
Antivibration support (4 pcs/6 pcs) <sup>c</sup>		ST-K4AV ST-K6AV			
Plastic brackets (4 pcs/6 pcs) <sup>c</sup>	ST-KP4MP ST-KP6MP				
		PROTECTION TUBES, STANDS			
IP67/IP69K tubes					
Protective stands		SG-PSB series <sup>B</sup>			
Stand plate for SG-PSB		SG-P			
Protective stands mounting brackets (4 Pcs/6 pcs) <sup>c</sup>	ST-PS4-SG BODY ST-PS6-SG BODY				
Floor columns	SE-S Series				
		MIRRORS			
Protective stands with single mirrors	SG-PS	M 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 <sup>d</sup>		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 <sup>d</sup>		SG-SRT-1			
External muting lamps		LMS series			

NOTES

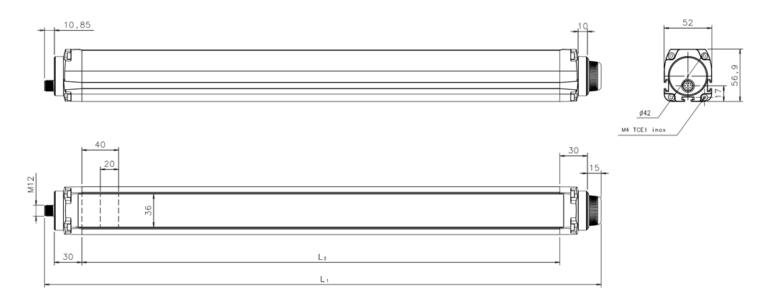
 $^{\rm B}\,\rm Not$  possible with T or L muting arms mounted

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

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

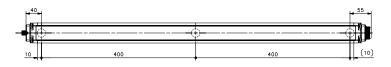


### DIMENSIONS (MM)



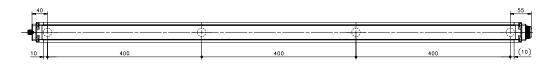
#### DIMENSIONS (MM)







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		
MUTING	SG2 BODY BIG BASE [SG2-BX-XXX-00-E]	ORDER CODE	SG4 BODY BIG BASE       [SG4-BX-XXX-00-E]       SG4-B2-050-00-E       SG4-B3-080-00-E       SG4-B4-090-00-E	ORDER CODE	SG4 LONG RANGE BASE [SG4-40-XXX-00-E]	ORDER CODE	
	SG2-B2-050-00-E	957851240	SG4-B2-050-00-E	957851280	<b>B</b> [SG4-40-XXX-00-E] SG4-40-060-00-E	957851570	
5	SG2-B3-080-00-E	957851250	SG4-B3-080-00-E	957851290		957851580	
WITHOUT	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			
ÐN	SG2 BODY BIG MUTING [SG2-BXXX-XXX-00-W-C]	ORDER CODE	SG4 BODY BIG MUTING [SG4-BXXX-XXX-00-W-C] SG4-BSR2-050-00-W-C	ORDER CODE			
MUTING	SG2-B2-050-00-W-C			957851400			
	SG2-B3-080-00-W-C	957851330	SG4-BSR3-080-00-W-C SG4-BSR4-090-00-W-C	957851410			
ATED	SG2-B4-090-00-W-C	957851340	SG4-BSR4-090-00-W-C	957851420			
C≃	SG2-B4-120-00-W-C	957851350	SG4-BSR4-120-00-W-C	957851430			
INTEG			SG4-BLR2-050-00-W-C	957851360			
			SG4-BLR2-050-00-W-C SG4-BLR3-080-00-W-C	957851370			
WITH				957851380			
3			SG4-BLR4-120-00-W-C	957851390			

# CABLES

ADELO	TRANSMITTER CABLE (MAIN CONNECTOR)		
SG BODY BIG BASE	CS -A1-03-U-03	3	95ASE 1170
	CS -A1-03-U-05	5	95ASE 1180
SG4 LONG RANGE BASE	CS -A1-03-U-10	10	95ASE 1190
	CS -A1-03-U-15	15	95ASE 1200
SG BODY BIG MUTING [SG2-Bx-xxx-00-W-C]	CS -A1-03-U-25	25	95ASE 1210
[SG4-Bxxx-xxx-00-W-C]	CS -A1-03-U-50	50	95A252700
	RECEIVER CABLE (MAIN CONNECTOR)		ORDER CODE
SG BODY BIG BASE	CS -A1-06-U-03	3	95ASE1220
	CS -A1-06-U-05	5	95ASE1230
	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
	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)		ORDER CODE
	CS -A1-03-U-03	3	95ASE 1170
	CS -A1-03-U-05	5	95ASE 1180
SG BODY BIG MUTING [SG2-Bx-xxx-00-W-C]	CS -A1-03-U-10	10	95ASE 1190
	CS -A1-03-U-15	15	95ASE 1200
	CS -A1-03-U-25	25	95ASE 1210
	CS -A1-03-U-50	50	95A252700

All cables have axial connectors

The company endeavours to continuously improve and renew its products; for this reason the technical data and contents of this catalogue may undergo variations without prior notice. For correct installation and use, the company can guarantee only the data indicated in the instruction manual supplied with the products.

