CIDOJATACO

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

			FINGER	HAND	ARM	BO
Food & Beverage		Type 2				
Metalworking Automotive Wood Ceramics		Type 4			Х	х
	SG 2-B2-			VERSION	1	
	2 Type 2 4 Type 4	050 500 mm (2 bea 080 800 mm (3 bea	ms) ms)	Base:	without g function	
		090 900 mm (4 bea 120 1200 mm (4 bea	W-C	Muting: wi	ith integrated g function	
D0	BEAMS AND RANGE	120 1200 1111 (4 bec	1113/			
B2 B3	2 Beams 3 Beams					
B3 B4	4 Beams	CC	4-4($\angle \cap$	00
BSR2	2 Beams Short Range (only type 4)	30	4 - 4 (O	
BSR3	3 Beams Short Range (only type 4)					
BSR4	4 Beams Short Range (only type 4)					
BLR2	2 Beams Long Range (only type 4)				ORED HEIGHT	
BLR3	3 Beams Long Range (only type 4)			060	660 mm	
	4 Beams Long Range (only type 4)			090	960 mm	
BLR4	4 beams Long Range (only type 4)				/	

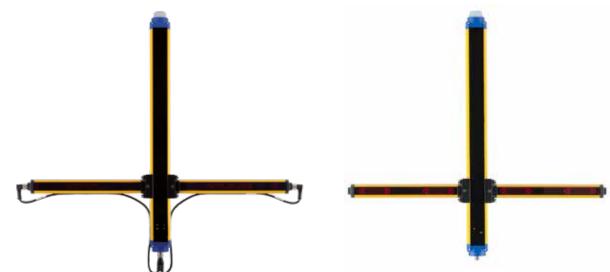
- Meta
- Auto
- Woo
- Cera

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-XXX-00-L			
Туре (ЕN61496-1-2)		2		4				
PL (EN ISO 13849-1)		c e						
SIL (IEC 61508)		1		3				
Resolution		419,75 mm (3	n (4 beams) and 4 beams) n (2 beams)	eams) 4 beams)				
Operating distance	0.5	60 m	6 60 m	0.5 30 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)							
	1	ELECTRICA	L DATA					
Power supply (Vdd)			24 Vdc ± 20%					
Dutputs	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 depending or depending or							
Cables length (for power supply)			70 m max.					
		MECHANICAL AND ENV						
Operating 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					
	External Device Monitoring (EDM)							
	Coding selection with DIP-SW							
		T-Muting/L-Muting		T-Muting/L-Muting				
		Muting timeout: 10 min. or ∞		Muting timeout: 10 min. or ∞				
		Integrated muting lamp		Integrated muting lamp				
		O		Override				
		Override						
		Muting enable input Override status output		Muting enable input Override status output				

NOTES

^A 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; 1	s, 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 = 0V; 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				
CONNECTOR		$10 \qquad 45^{\circ} \qquad 1 \qquad 9 \qquad 8 \\ 3 \qquad 11 \qquad 7 \qquad 6 \qquad 7 \qquad 6 \qquad 7 \qquad 6 \qquad 7 \qquad 6 \qquad 7 \qquad 7$				
		M12, 5 poles, male 1 = brown = 24Vdc; 2 = white = MUTING2; 3 = blue = 0V; 4 = black = MUTING 1				
RECEIVER SECONDARY CONNECTOR						
SECONDARY CONNECTOR MAIN CONNECTOR						

ACCESSORIES

	SG BODY BIG BASE [SG2/4-Bx-xxx-00-E]	SG BODY BIG MUTING [SG2/4-Bxxx-xxx-00-W-C]					
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	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 ^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

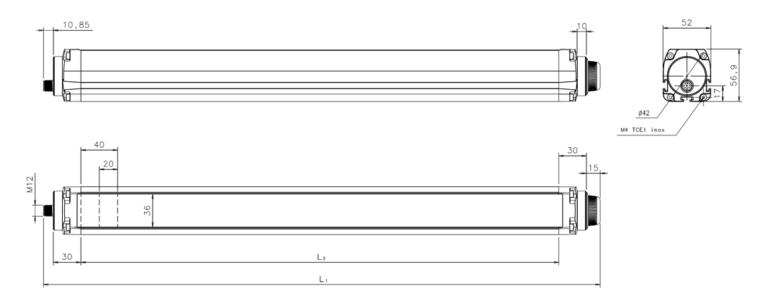
 $^{\rm B}\,\rm Not$ possible with T or L muting arms mounted

^C Use 6 brackets for light curtains with length \ge 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

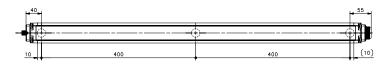


DIMENSIONS (MM)



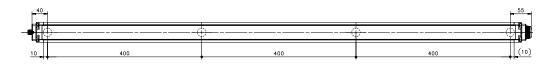
DIMENSIONS (MM)







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	WITHOUT MUTING	SG4 BODY BIG BASE [SG4-BX-XXX-00-E]	ORDER CODE	RANGE	SG4 LONG RANGE BASE [SG4-40-XXX-00-E]	ORDER CODE	
M	SG2-B2-050-00-E	957851240	B	SG4-B2-050-00-E	957851280	N	SG4-40-060-00-E	957851570	
5	SG2-B3-080-00-E	957851250	5	SG4-B3-080-00-E	957851290	5	SG4-40-090-00-E	957851580	
WITHOUT	SG2-B4-090-00-E	957851260	Ĕ	SG4-B4-090-00-E	957851300	LONG	SG4-40-120-00-E	957851590	
ž	SG2-B4-120-00-E	957851270	>	SG4-B4-120-00-E	957851310				
ŊĠ	SG2 BODY BIG MUTING [SG2-BXXX-XXX-00-W-C]	ORDER CODE	RANGE	SG4 BODY BIG MUTING [SG4-BXXX-XXX-00-W-C]	ORDER CODE				
MUTING	SG2-B2-050-00-W-C	957851320	R	SG4-BSR2-050-00-W-C	957851400				
	SG2-B3-080-00-W-C	957851330	SHORT	SG4-BSR3-080-00-W-C	957851410				
Ξ	SG2-B4-090-00-W-C	957851340	R	SG4-BSR4-090-00-W-C	957851420				
RA	SG2-B4-120-00-W-C	957851350		SG4-BSR4-120-00-W-C	957851430				
INTEGRATED			넁	SG4-BLR2-050-00-W-C	957851360				
			RANG	SG4-BLR3-080-00-W-C	957851370				
WITH			8	SG4-BLR4-090-00-W-C	957851380				
3			FONG	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	
	CS -A1-03-U-05	5	95ASE 1180	
	CS -A1-03-U-10	10	95ASE 1190	
	CS -A1-03-U-15	15	95ASE 1200	
SG BODY BIG MUTING	CS -A1-03-U-25	25	95ASE 1210	
	CS -A1-03-U-50	50	95A252700	
	RECEIVER CABLE (MAIN CONNECTOR)	LENGTH (m)		
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	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	
	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	
[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	

NOTES

All cables have axial connectors

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