SG BODY COMPACT BASE SG BODY COMPACT MUTING

COLONIA STATE



Body access detection

Perimeter control

Rapid solution for access control with muting

Easy installation and alignment

L and T muting models provided with Retroreflective Muting Arms

- Two, three or four beams for body protection
- Controlled heights of 500, 800, 900 and 1200 mm
- Long operating distance: up to 50 m
- Simple configuration through DIP switches
- Integrated muting lamp (only on muting models)



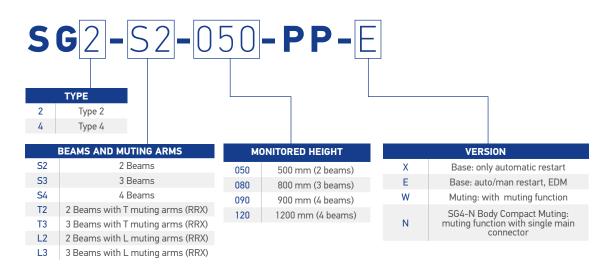
APPLICATIONS

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

INDUSTRIES

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

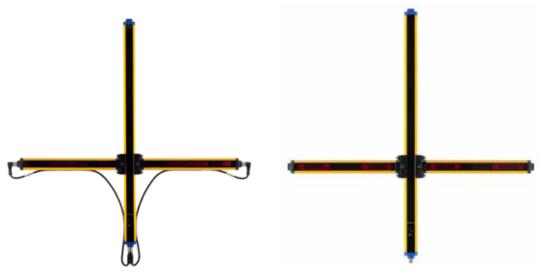
	FINGER	HAND	ARM	BODY
Type 2				Х
Type 4				Х



TECHNICAL DATA

			SG4 BODY	SG4 BODY	SG4 BODY	SG4-N BODY	
			COMPACT BASE				
	BASE						
	[302-31-11-1]	[302-3/L/1X-XXX-11-W]	GENERAL DATA	[304-37-777-11-5]	[304-3/2/17-XXX-11-W]	[304-3x-xxx-11-	
Туре (ЕN61496-1)		2			4		
PL (EN ISO 13849-1)		С	e				
SIL (IEC 61508)		1			3		
Resolution		315 mm (4 beams) 415 mm (3 and 4 beams) 515 mm (2 beams)					
Protected height			815 mm	(2 beams) (3 beams) 215 (4 beams)			
Operating distance			0.5 .	50 m			
Retroreflective muting arms operating distance (included in L and T versions)		0.5 3 m			. 0.5 3 m		
Emitter-Receiver muting arms operating distance		0.5 7 m			0.5 7 m		
		E	ELECTRICAL DATA				
Power supply (Vdd)				c ± 20%			
Outputs				PNP			
Output current				each output			
Capacitive load				ax at 25°C			
Response time			14 16 ms dep	ending on model *			
Cables length (for power supply)				n max.			
Operating temperature		MECHANICAI	L AND ENVIRONMENT	AL DATA +55 °C			
Humidity				condensation)			
Mechanical protection			•	N 60529)			
Meenameat protection			FUNCTIONS				
Test Input	On F	Receiver	N/A	On Receiver			
Restart	Automatic / Manual		Automatic		Automatic / Manual		
EDM (External Device Monitoring)	On F	On Receiver N/A On Receiver		On Receiver	r		
Muting type (Selectable with DIP-sw)*		T-Muting / L-Muting	N/A		T-Muting / L-Muting		
Muting time-out (Selectable with DIP-sw)*		10 min. or ∞	N/A		10 min.	or ∞	
Override		On Receiver	N/A		On Receiver		
Impulsive Override (single wire) NOTES						On Receiver	

NOTES
* For detailed informations refer to related Product Manual



CONNECTIONS

M12, 4 poles, male 1 = Brown = 24Vdc3 = Blue = 0 VNOT USED +24 VDC <u>্</u>বত NOT USED +24 Vdc NOT USED M12, 5 poles, male હ્યુ 1 = Brown = 24 Vdc NOT USED 3 = Blue = 0 VNOT USED 0 V M12, 8 poles, male

1 = white = RESTART / RESET / EDM / OVERRIDE

2 = brown = 24 VDC

3 = green = MUTING 1

4 = yellow = MUTING 2

5 = grey = OSSD 1

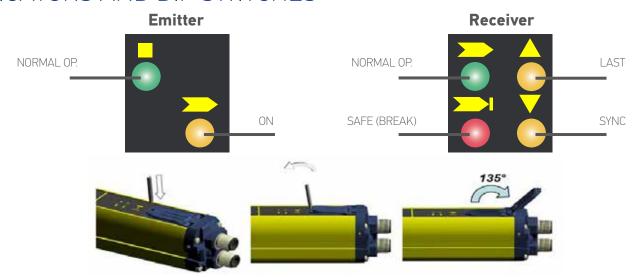
6 = pink = OSSD 2

7 = blue = 0V

8 = red = MUTING

LAMP M12, 8 poles, male OSSD1 PNP 1 = white = TEST/START 2 = brown = 24 Vdc 4 = yellow = EDM 5 = grey = OSSD 1 6 = pink = OSSD 2 7 = blue = 0V M12, 8 poles, male OSSD2 PNP M12, 5 poles, male EDM +24 Vdc 1 = Brown = 24Vdc 2 = White = 0SSD1 1 = white = TEST / START 2 = brown = 24 VDC 3 = Blue = 0 V 4 = Black = OSSD2 3 = green = OVERRIDE 1 1 4 = yellow = EDM 5 = grey = OSSD 1 6 = pink = OSSD 2 7 = blue = 0V 8 = red = OVERRIDE 2 OVR2 OV EON IN TO NO NOT USED not used MUTING2 +24 Vdc M12, 5 poles, male 1 = Brown = 24 Vdc 2 = White = MUTING2 3 = Blue = 0 V

INDICATORS AND DIP SWITCHES



4 = Bl ack = MUTING1

NOT USED

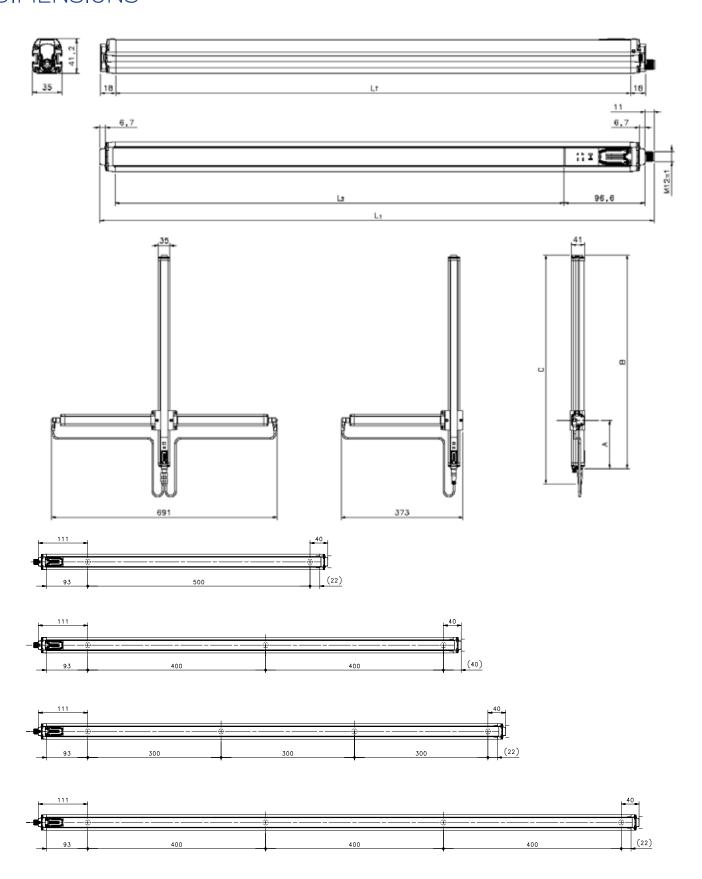
MUTING1

0

DIP-SW	FUNCTION	ON	OFF
1, 5			
2, 6			
3, 7	EDM	Deactivated	Activated
4, 8	Restart	Automatic	Manual
NOTE			

DIP SW are not present on SG4 BODY COMPACT BASE models with -X final: [SGx-Sx-xxx-PP-X]

DIMENSIONS



MODEL	L1 (mm)	L2 (mm)	A (mm)	B (mm)	C (mm)
SGx-S/L/Tx-050-PP-x	662	538.4	120-260	653	700
SGx-S/L/Tx-080-PP-x	962	838.4	120-260	953	1000
SGx-S/L/Tx-090-PP-x	1062.5	938.4	120-260	1053	1100
SGx-S/L/Tx-120-PP-x	1362.5	1238.4	120-260	1353	1400

MODEL SELECTION AND ORDER INFORMATION

	SG2	BODY COMPACT BASE [SG2-SX-XXX-PP-E]	ORDER CODE	SG4 BODY COMPACT BASE [SG4-SX-XXX-PP-E]	ORDER CODE
				SG4-S2-050-PP-X	957851600
ONLY AUTOMATIC				SG4-S3-080-PP-X	957851610
RESTART NO EDM			SG4-S4-090-PP-X	957851620	
				SG4-S4-120-PP-X	957851630
		SG2-S2-050-PP-E	957851000	SG4-S2-050-PP-E	957851040
WITH EDM AND MA-		SG2-S3-080-PP-E	957851010	SG4-S3-080-PP-E	957851050
NUAL RE- START		SG2-S4-090-PP-E	957851020	SG4-S4-090-PP-E	957851060
		SG2-S4-120-PP-E	957851030	SG4-S4-120-PP-E	957851070
WITHOUT MUTING ARMS WITH INTEGRATED MUTING WITH L		SG2 BODY COMPACT MUTING [SG2-S/L/TX-XXX-PP-W]	ORDER CODE	SG4 BODY COMPACT MUTING [SG4-S/L/TX-XXX-PP-W]	ORDER CODE
	WITHOUT	SG2-S2-050-PP-W	957851080	SG4-S2-050-PP-W	957851160
	MUTING ARMS	SG2-S3-080-PP-W	957851090	SG4-S3-080-PP-W	957851170
		SG2-S4-090-PP-W	957851100	SG4-S4-090-PP-W	957851180
		SG2-S4-120-PP-W	957851110	SG4-S4-120-PP-W	957851190
	WITH L	SG2-L2-050-PP-W	957851120	SG4-L2-050-PP-W	957851200
	WITH L MUTING ARMS	SG2-L3-080-PP-W	957851130	SG4-L3-080-PP-W	957851210
WITH T MUTING ARMS	WITH T	SG2-T2-050-PP-W	957851140	SG4-T2-050-PP-W	957851220
	ARMS	SG2-T3-080-PP-W	957851150	SG4-T3-080-PP-W	957851230
WITH				SG4 BODY COMPACT MUTING [SG4-S/L/TX-XXX-PP-W]	ORDER CODE
NTEGRATED MUTING	WITHOUT MUTING			SG4-S2-050-PP-N	957851640
ON MAIN	ARMS			SG4-S3-080-PP-N	957851650
CONNECTOR				SG4-S4-090-PP-N	957851660
				SG4-S4-120-PP-N	957851670

CABLES

	POLES	CONNECTOR	LENGHT (M)	MODEL	ORDER NUMBER
SG BODY COMPACT BASE/MUTING		Axial	3	CV-A1-22-B-03	95ACC1480
EMITTER MAIN CONNECTOR [SG2\4-SX-XXX-PP-X/E/W/N]			5	CV-A1-22-B-05	95ACC1490
			10	CV-A1-22-B-10	95ACC1500
SG BODY COMPACT BASE RECEIVER MAIN CONNECTOR			15	CV-A1-22-B-15	95ACC2070
[SG2\4-SX-XXX-PP-X]	4		25	CV-A1-22-B-25	95ACC2090
SG BODY COMPACT MUTING		Radial	3	CV-A2-22-B-03	95ACC1540
EMITTER AND RECEIVER SECONDARY CONNECTORS			5	CV-A2-22-B-05	95ACC1550
[SG2\4-S/L/TX-XXX-PP-W]			10	CV-A2-22-B-10	95ACC1560
	8	Axial	3	CV-A1-26-B-03	95ACC1510
			5	CV-A1-26-B-05	95ACC1520
G BODY COMPACT BASE/MUTING			10	CV-A1-26-B-10	95ACC1530
RECEIVER MAIN CONNECTOR			15	CV-A1-26-B-15	95ACC2080
[SG2/4-SX-XXX-PP-E] [SG2/4-S/L/TX-XXX-PP-W]			25	CV-A1-26-B-25	95ACC2100
[SG4-SX-XXX-PP-N]			3	CV-A2-26-B-03	95ACC1600
		Radial	5	CV-A2-26-B-05	95ACC1610
			10	CV-A2-26-B-10	95ACC1620

 $The \ cables \ for \ the \ secondary \ connector \ of \ SG \ BODY \ COMPACT \ MUTING \ T \ and \ L \ are \ provided \ within \ the \ package$

ACCESSORIES

BRACKETS ST-KSTD (included) Standard angled brackets (4 pcs)¹ Rotating brackets (4 pcs) ST-K4ROT-SG BODY COMPACT Antivibration support (4 Pcs / 6 pcs)³ ST-K4AV ST-K6AV ST-K40R Orientable support (4 pcs / 6 pcs)³ ST-K60R ST-KP4MP Plastic brackets (4 pcs / 6 pcs)³ ST-KP6MP PROTECTION TUBES AND STANDS IP67/IP69K tubes Protective stands SG-PSB series ² Stand plate for SG-PSB SG-P Protective stands mounting brackets (4 pcs ST-PS4-SG-SE ST-PS6-SG-SE / 6 pcs)3 SE-S Series Floor columns MIRRORS Protective stands with single mirrors SG-PSM series Deviating mirrors mounting kit for SG-PSB ST-PS-DM SG-DM series Deviating mirrors Mirror mounting bracket ST-DM

SAFETY UNITS

ALIGNMENT TOOL

ACCESSORIES FOR MUTING

SG-LP

SE-SR2

SG-BWS-T4-MT

CS ME-03VU24-Y14

See page 77

SG-SRT-1 ****

LMS Series

NOTES

Safety unit

Edm relay box⁴

Safety control unit for single beams and

SLC

Laser pointer

Muting arms, brackets and cables

Muting connection box

External muting lamps

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¹ 1200 mm models are provided with 6 pcs standard brackets

² Not possible with T or L muting arms mounted

³ Use 6 brackets for light curtains with length >= 1200 mm

 $^{^4\,}$ When using EDM Relay Box or Muting connection box, connect EDM input, and be sure EDM function is active on the safety light curtain