# SG BODY COMPACT BASE SG BODY COMPACT MUTING







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

**COLOUATACO** 

- 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**

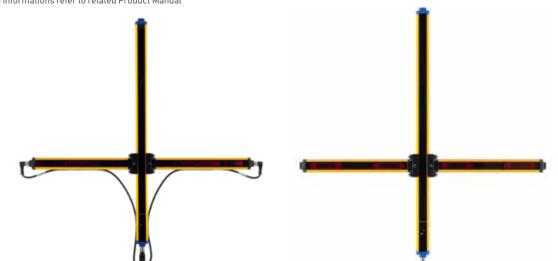
				FINGER	HAN	ID 🛛	ARM	BODY
Food & Beverage			Type 2					Х
<ul> <li>Metalworking</li> <li>Automotive</li> <li>Wood</li> <li>Ceramics</li> </ul>			Type 4					х
<b>S</b> 2 4	<b>G</b> 2-52-0 <b>TYPE</b> Type 2 Type 4	50	- P P	•=E				
	BEAMS AND MUTING ARMS	м	DNITORED HEIG	нт		VER	SION	
S2	2 Beams	050	500 mm (2 b	eams)	Х	Base: on	ly automatio	: restart
S3	3 Beams	080	800 mm (3 b		E	Base: au	to/man resta	art, EDM
S4	4 Beams	090	900 mm (4 b	eams)	W	Muting: v	vith muting	function
T2	2 Beams with T muting arms (RRX)	120	1200 mm (4 k			SG4-N B	ody Compac	Muting:
Т3	3 Beams with T muting arms (RRX)				N	SG4-N Body Compact Mutir muting function with single n connector		ngle main
L2	2 Beams with L muting arms (RRX)						connector	
L3	3 Beams with L muting arms (RRX)							

#### **OIDOJATACO**

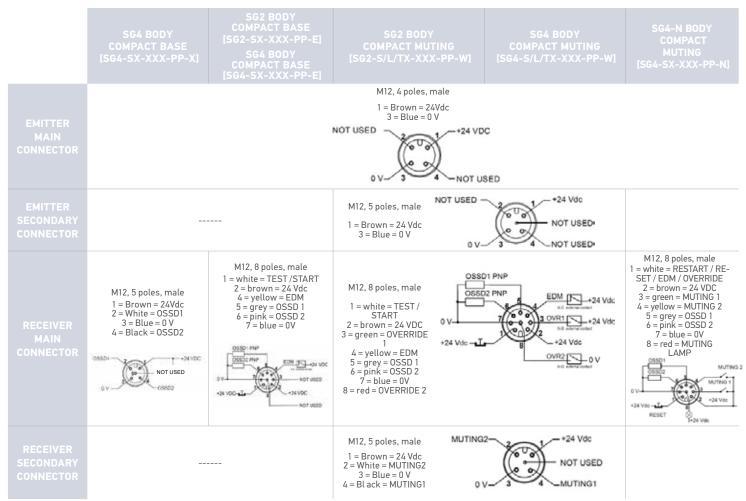
## TECHNICAL DATA

			SG4 BODY	SG4 BODY	SG4 BODY	SG4-N BODY	
	[SG2-Sx-xxx-PP-E]			[SG4-Sx-xxx-PP-E]	[SG4-S/L/Tx-xxx-PP-W]	[SG4-Sx-xxx-PP-	
			GENERAL DATA				
Type (EN61496-1)		2			4		
PL (EN ISO 13849-1)		С			е		
SIL (IEC 61508)		1			3		
Resolution			415 mm (3	(4 beams) and 4 beams) (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	LECTRICAL DATA				
Power supply (Vdd)			24 Vd	c ± 20%			
Outputs		2 PNP					
Output current	0.5 A max / each output						
Capacitive load		65 nF max at 25°C					
Response time	14 16 ms depending on model *						
Cables length (for power supply)		MECHANICAL	50 n	n max.			
Operating temperature		MECHANICAL		⊧55 °C			
Humidity				condensation)			
Mechanical protection				N 60529)			
Housing Material							
				ım, Polycarbonate			
Window material			FUNCTIONS	IMA			
Test Input	On R	leceiver	N/A		On Receiver		
Restart		tic / Manual	Automatic	Automatic / Manual			
EDM (External Device Monitoring)	Automatic     Manual       On Receiver     N/A   On Receiver						
Muting type (Selectable with DIP-sw)*		T-Muting / L-Muting	N/A	T-Muting / L-Muting		L-Muting	
Muting time-out (Selectable with DIP-sw)*		10 min. or ∞	N/A		10 min.	0r ∞	
Override		On Receiver	N/A		On Receiver		
Impulsive Override (single wire)						On Receiver	

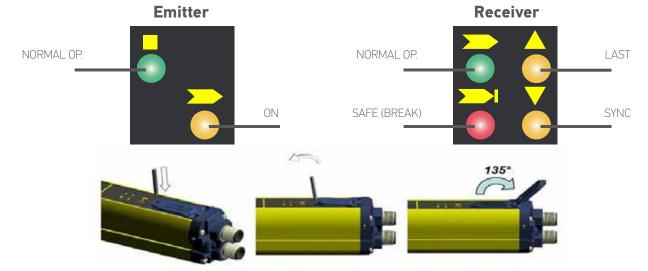
\* For detailed informations refer to related Product Manual



### CONNECTIONS



#### INDICATORS AND DIP SWITCHES

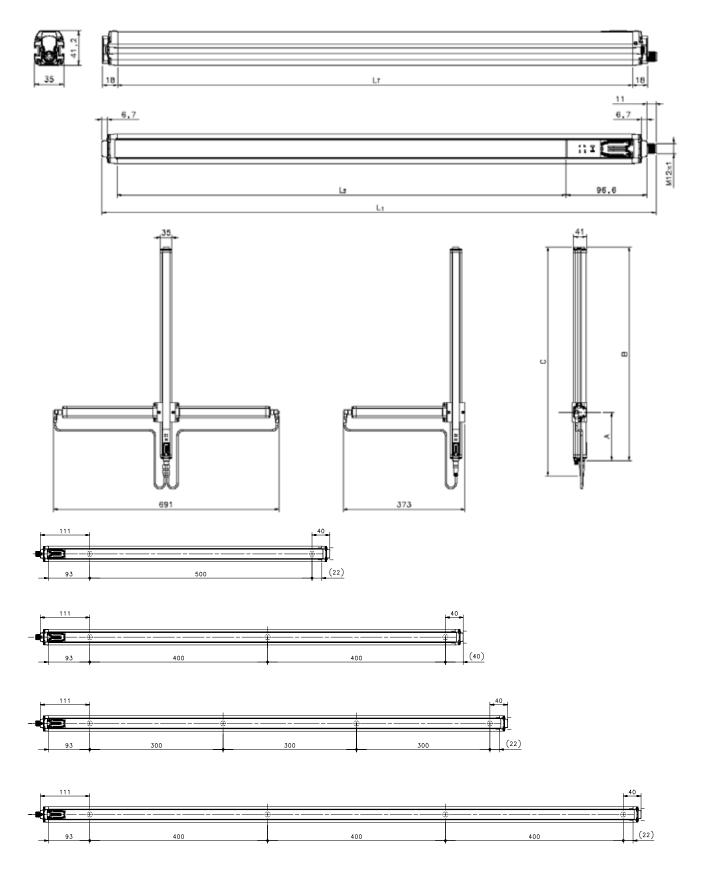


1, 5			
2, 6			
3, 7	EDM	Deactivated	Activated
4, 8	Restart	Automatic	Manual

NOTE

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

### DIMENSIONS



MODEL	L1 (mm)		A (mm)	B (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

		2 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
		SG2-S3-080-PP-E	957851010	SG4-S3-080-PP-E	957851050
		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		SG2 BODY COMPACT MUTING [SG2-S/L/TX-XXX-PP-W]		SG4 BODY COMPACT MUTING [SG4-S/L/TX-XXX-PP-W]	
	WITHOUT MUTING ARMS	SG2-S2-050-PP-W	957851080	SG4-S2-050-PP-W	957851160
		SG2-S3-080-PP-W	957851090	SG4-S3-080-PP-W	957851170
WITH		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
		SG2-T2-050-PP-W	957851140	SG4-T2-050-PP-W	957851220
	MUTING 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
INTEGRATED				SG4-S2-050-PP-N	957851640
MUTING ON MAIN	MUTING ARMS			SG4-S3-080-PP-N	957851650
CONNECTOR				SG4-S4-090-PP-N	957851660
				SG4-S4-120-PP-N	957851670

### CABLES

				MODEL	
SG BODY COMPACT BASE/MUTING		-	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
		Axial	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
		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
		Axial	3	CV-A1-26-B-03	95ACC1510
			5	CV-A1-26-B-05	95ACC1520
SG 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]	8		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

#### NOTE

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

### ACCESSORIES

	SG4 BODY COMPACT BASE [SG4-SX-XXX-PP-X]	SG2 BODY COMPACT BASE SG4 BODY COMPACT BASE [SG2/4-SX-XXX-PP-E]	SG2 BODY COMPACT MUTING SG4 BODY COMPACT MUTING [SG2/4-S/L/TX-XXX-PP-W]	SG4-N BODY COMPAC MUTING [SG4-SX-XXX-PP-N]		
		BRACKETS				
Standard angled brackets (4 pcs) <sup>1</sup>		ST-KS	STD (included)			
Rotating brackets (4 pcs)		ST-K4R0T-	SG BODY COMPACT			
Antivibration support (4 Pcs / 6 pcs)³		ST-K4AV ST-K6AV				
Orientable support (4 pcs / 6 pcs) <sup>3</sup>			ST-K40R ST-K60R			
Plastic brackets (4 pcs / 6 pcs) <sup>3</sup>			T-KP4MP T-KP6MP			
	PF	ROTECTION TUBES AND STANDS				
IP67/IP69K tubes						
Protective stands		SG-	PSB series <sup>2</sup>			
Stand plate for SG-PSB			SG-P			
Protective stands mounting brackets (4 pcs / 6 pcs) <sup>3</sup>	ST-PS4-SG-SE ST-PS6-SG-SE					
Floor columns		SE	-S Series			
		MIRRORS				
Protective stands with single mirrors		SG-	PSM series			
Deviating mirrors mounting kit for SG-PSB		S	T-PS-DM			
Deviating mirrors		SG	-DM series			
Mirror mounting bracket			ST-DM			
		SAFETY UNITS				
Safety unit			SE-SR2			
Edm relay box <sup>4</sup>			CS ME-03VU24-Y14			
Safety control unit for single beams and SLC	SG-BWS-T4-MT					
		ALIGNMENT TOOL		1		
Laser pointer		SG-LP				
		ACCESSORIES FOR MUTING				
Muting arms, brackets and cables			See page 77			
Muting connection box			SG-SRT-1 ****			
External muting lamps			LMS Ser	es		
IOTES						

 $^{\rm 2}\,$  Not possible with T or L muting arms mounted

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

<sup>4</sup> When using EDM Relay Box or Muting connection box, connect EDM input, and be sure EDM function is active on the safety light curtain