

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



SAFETY

- 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				▪
TYPE 4				▪

SG2-S2-050-PP-E

TYPE	
2	Type 2
4	Type 4

BEAMS AND MUTING ARMS	
S2	2 Beams
S3	3 Beams
S4	4 Beams
T2	2 Beams with T muting arms (RRX)
T3	3 Beams with T muting arms (RRX)
L2	2 Beams with L muting arms (RRX)
L3	3 Beams with L muting arms (RRX)

MONITORED HEIGHT	
050	500 mm (2 beams)
080	800 mm (3 beams)
090	900 mm (4 beams)
120	1200 mm (4 beams)

VERSION	
X	Base: only automatic restart
E	Base: auto/man restart, EDM
W	Muting: with muting function

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TECHNICAL DATA

	SG2 BODY COMPACT BASE [SG2-Sx-xxx-PP-E]	SG2 BODY COMPACT MUTING [SG2-S/L/Tx-xxx-PP-W]	SG4 BODY COMPACT BASE [SG4-Sx-xxx-PP-X]	SG4 BODY COMPACT BASE [SG4-Sx-xxx-PP-E]	SG4 BODY COMPACT MUTING [SG4-S/L/Tx-xxx-PP-W]
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GENERAL DATA

Type (EN61496-1)	2		4	
PL (EN ISO 13849-1)	c		e	
SIL (IEC 61508)	1		3	
Resolution	315 mm (4 beams) 415 mm (3 and 4 beams) 515 mm (2 beams)			
Protected height	515 mm (2 beams) 815 mm (3 beams) 915 mm or 1215 (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

ELECTRICAL DATA

Power supply (Vdd)	24 Vdc $\pm$ 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)	50 m max.				

MECHANICAL AND ENVIRONMENTAL DATA

Operating temperature	0 ... +55 °C				
Humidity	15 ... 95 % (no condensation)				
Mechanical protection	IP 65 (EN 60529)				

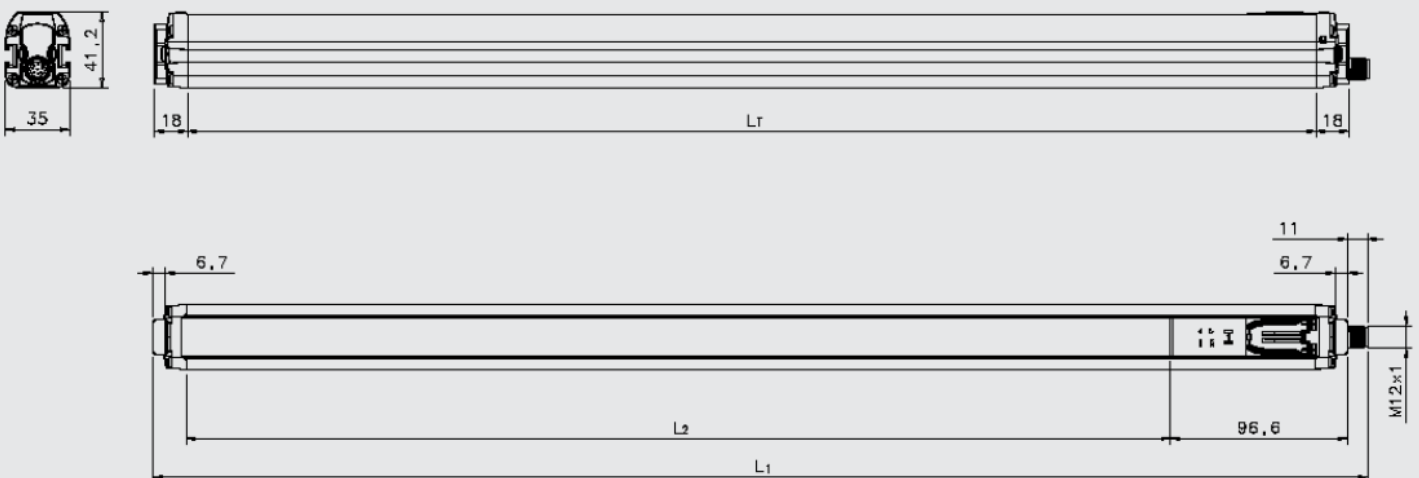
FUNCTIONS

Test Input	On Receiver		N/A	On Receiver	
Restart	Automatic / Manual		Automatic	Automatic / Manual	
EDM (External Device Monitoring)	On Receiver		N/A	On Receiver	
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

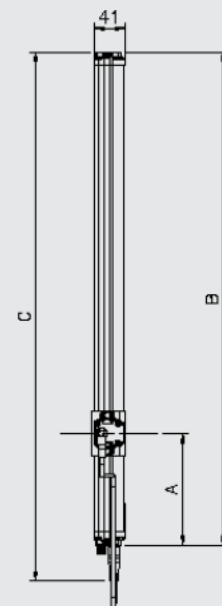
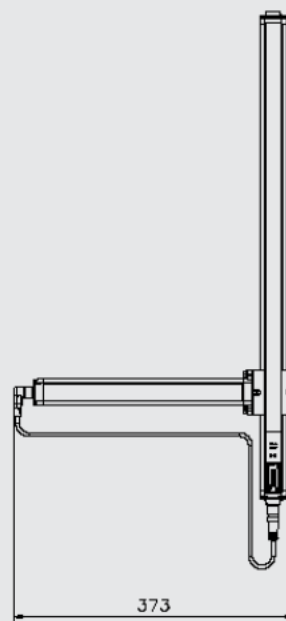
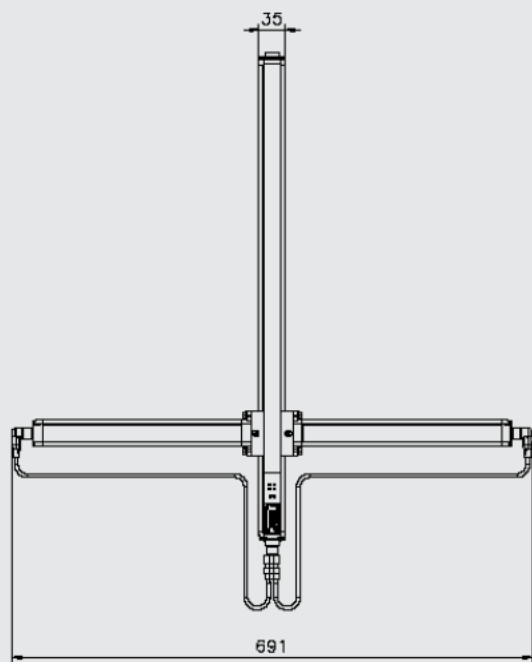
NOTES

* For detailed informations refer to related Product Manual

DIMENSIONS



SG BODY COMPACT BASE SG BODY COMPACT MUTING



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-050-PP-x	962	838.4	120-260	953	1000
SGx-S/L/Tx-050-PP-x	1062.5	938.4	120-260	1053	1100
SGx-S/L/Tx-050-PP-x	1362.5	1238.4	120-260	1353	1400

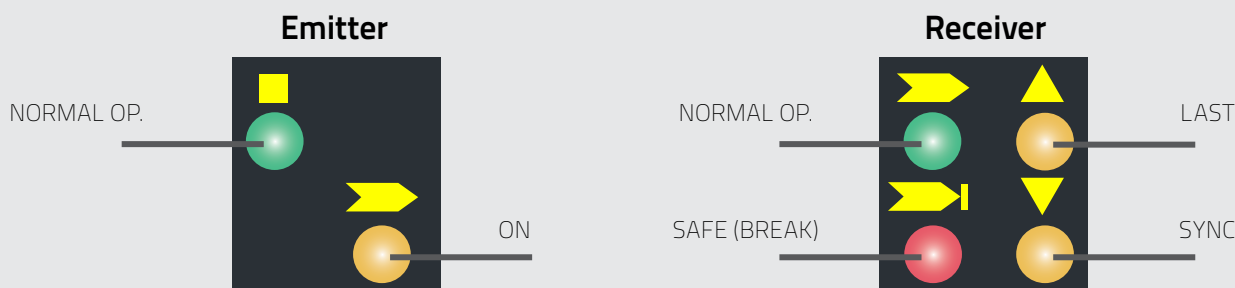
CONNECTIONS

	SG4 BODY COMPACT BASE [SG4-SX-XXX-PP-X]	SG2 BODY COMPACT BASE [SG2-SX-XXX-PP-E] SG4 BODY COMPACT BASE [SG4-SX-XXX-PP-E]	SG2 BODY COMPACT MUTING [SG2-S/L/TX-XXX-PP-W]	SG4 BODY COMPACT MUTING [SG4-S/L/TX-XXX-PP-W]
EMITTER MAIN CONNECTOR	M12, 4 poles, male 1 = Brown = 24Vdc 3 = Blue = 0 V			
EMITTER SECONDARY CONNECTOR	-----		M12, 5 poles, male 1 = Brown = 24 Vdc 3 = Blue = 0 V	
RECEIVER MAIN CONNECTOR	M12, 5 poles, male 1 = Brown = 24Vdc 2 = White = OSSD1 3 = Blue = 0 V 4 = Black = OSSD2	M12, 8 poles, male 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 1 = white = TEST /START 2 = brown = 24 VDC 3 = green = OVERRIDE 1 4 = yellow = EDM 5 = grey = OSSD 1 6 = pink = OSSD 2 7 = blue = 0V 8 = red = OVERRIDE 2	
EMITTER SECONDARY CONNECTOR	-----		M12, 5 poles, male 1 = Brown = 24 Vdc 2 = White = MUTING2 3 = Blue = 0 V 4 = Black = MUTING1	

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INDICATORS AND DIP SWITCHES



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]

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
ONLY AUTOMATIC RESTART NO EDM				SG4-S2-050-PP-X	957851600
				SG4-S3-080-PP-X	957851610
				SG4-S4-090-PP-X	957851620
				SG4-S4-120-PP-X	957851630
WITH EDM AND MANUAL RESTART		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
WITH INTEGRATED MUTING	WITHOUT MUTING ARMS	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
		SG2-S2-050-PP-W	957851080	SG4-S2-050-PP-W	957851160
		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 MUTING ARMS	SG2-L2-050-PP-W	957851120	SG4-L2-050-PP-W	957851200
		SG2-L3-080-PP-W	957851130	SG4-L3-080-PP-W	957851210
	WITH T MUTING ARMS	SG2-T2-050-PP-W	957851140	SG4-T2-050-PP-W	957851220
		SG2-T3-080-PP-W	957851150	SG4-T3-080-PP-W	957851230

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CABLES

	POLES	CONNECTOR	LENGHT (M)	MODEL	ORDER NUMBER
SG BODY COMPACT BASE Emitter MAIN CONNECTOR [SG2\4-SX-XXX-PP-X\E] SG BODY COMPACT BASE Receiver MAIN CONNECTOR [SG2\4-SX-XXX-PP-X] SG BODY COMPACT MUTING Emitter AND RECEIVER MAIN CONNECTORS [SG2\4-S/L/TX-XXX-PP-W]	4	Axial	3	CV-A1-22-B-03	95ACC1480
			5	CV-A1-22-B-05	95ACC1490
			10	CV-A1-22-B-10	95ACC1500
			15	CV-A1-22-B-15	95ACC2070
			25	CV-A1-22-B-25	95ACC2090
		Radial	3	CV-A2-22-B-03	95ACC1540
			5	CV-A2-22-B-05	95ACC1550
			10	CV-A2-22-B-10	95ACC1560
SG BODY COMPACT BASE [SG2-SX-XXX-PP-E] [SG4-SX-XXX-PP-E] SG BODY COMPACT MUTING [SG2-S/L/TX-XXX-PP-W] [SG4-S/L/TX-XXX-PP-W]	8	Axial	3	CV-A1-26-B-03	95ACC1510
			5	CV-A1-26-B-05	95ACC1520
			10	CV-A1-26-B-10	95ACC1530
			15	CV-A1-26-B-15	95ACC2080
			25	CV-A1-26-B-25	95ACC2100
		Radial	3	CV-A2-26-B-03	95ACC1600
			5	CV-A2-26-B-05	95ACC1610
			10	CV-A2-26-B-10	95ACC1620
SG BODY COMPACT MUTING (LINEAR) [SG2-SX-XXX-PP-W] [SG4-SX-XXX-PP-W]	5	Axial	3	CS-A1-03-U-03	95ASE1170
			5	CS-A1-03-U-05	95ASE1180
			10	CS-A1-03-U-10	95ASE1190
			15	CS-A1-03-U-15	95ASE1200
			25	CS-A1-03-U-25	95ASE1210

NOTES

* For detailed informations refer to related Product Manual

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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]
BRACKETS			
STANDARD ANGLED BRACKETS (4 PCS) ¹	ST-KSTD (included)		
ROTATING BRACKETS (4 PCS)	ST-K4ROT-SG BODY COMPACT		
ANTIVIBRATION SUPPORT (4 PCS / 6 PCS) ³	ST-K4AV ST-K6AV		
ORIENTABLE SUPPORT (4 PCS / 6 PCS) ³	ST-K4OR ST-K6OR		
PLASTIC BRACKETS (4 PCS / 6 PCS) ³	ST-KP4MP 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 / 6 PCS) ³	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	ST-PS-DM		
DEVIATING MIRRORS	SG-DM series		
MIRROR MOUNTING BRACKET	ST-DM		
SAFETY UNITS			
SAFETY UNIT	SE-SR2		
EDM RELAY BOX ⁴	---	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 77 of safety reference guide	
MUTING CONNECTION BOX	---	SG-SRT-1 ⁴	
EXTERNAL MUTING LAMPS	---	LMS Series	

NOTES

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 $\geq$ 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

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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.

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