State-of-the-art technology and versatility Easily adaptable to the machine structure Maximum application flexibility with configurable advanced functions Complete diagnostic and monitoring online

- No dead zone
- Pigtail cable with M12 connector
- Cascade connection of up to 3 units
- Up to 20m operating range and 1800m protected height
- Compact dimensions (35 x 41 mm section)
- Anti-interference coding
- Integrated Muting function
- Floating Blanking, Fixed Blanking and Reduced Resolution
- Configurable with
 - -Autoteaching
 - -Pushbuttons for common configuration
 - -Graphic User Interface for complete parametrisation
- Ethernet Interface for programming, monitoring and error logging



APPLICATIONS

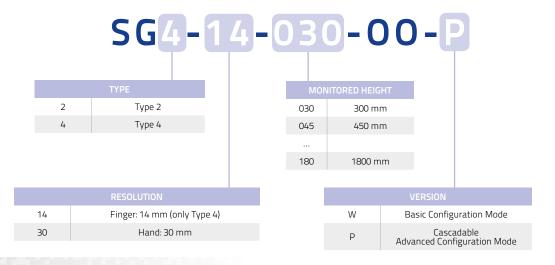
- Automatic machines
- Robots
- Automatic assembling lines
- Palletizers and Depalletizers



INDUSTRIES

Food & Beverage, Metalworking, Automotive, Wood, Ceramics

	FINGER	HAND	ARM	BODY
TYPE 2		•		
TYPE 4	•			



SG2 MUTING SG4 EXTENDED



TECHNICAL DATA

	SG2 MUTING [SG2-30-xxx-00-W]	SG4 EXTENDED [SG4-xx-xxx-00-P]	
	GENER	AL DATA	
Type (EN61496-1-2)	2	4	
PL (EN ISO 13849-1)	С	е	
SIL (IEC 61508)	1	3	
Resolution	30 mm	14, 30 mm	
Protected height	300 1800 mm (v	th 150 mm steps)	
Operating distance	0.2 20 m	0.2 7 m (14 mm resolution) 0.2 20 m (30 mm resolution)	
Dead Zone	No de	ad zone	
Cascade connection		Up to 3 units ^B	
	ELECTRI	CAL DATA	
Power supply (Vdd)	24 Vo	dc ± 20	
Outputs	2 PNP, with shor 2 I	t circuit protection PNP	
Output current	0.5 A max/	each output	
Capacitive load	2.2 uF @	24Vdc max	
Response time	13 22 ms depending on model A	13 33 ms depending on model A	
Cables length (for power supply)	50 m max		
	MECHANICAL AND E	NVIRONMENTAL DATA	
Operating temperature	0+50 °C		
Humidity		condensation)	
Mechanical protection		N 60529)	
		CTIONS	
		input	
		omatic Restart	
	External Device	Monitoring (EDM) Anti-interference coding	
	Pango	reduction	
		/L Muting	
		Partial Muting	
		Filter on muting signals	
	Muting depe	ndent Override	
		Floating Blanking	
		Fixed Blanking	
Max. Number of Blanking Areas		5	
		Reduced Resolution	

NOTES

A The response time depends on model; when a cascaded system is used, depends also on the number of units connected. For detailed informations refer to related Product Datasheet or Manual.

BThe three units can be one "master" and two "slaves". The maximum "slaves" length can't exceed 1200 mm. The maximum number of beams of the overall system is 160 beams for 30 mm resolution, and 320 beams for 14 mm resolution.

¹⁾ The use of any type of blanking is not compatible with the use of Muting and Muting dependent Override.
2) In order to use Muting or Blanking with SG4 EXTENDED, the correct pigtail cable must be used (see accessories table)

CONNECTIONS

COMMEC	TIONS		
	SG2 MUTING [SG2-30-XXX-00-W]	SG4 EXTENDED [SG4-XX-XXX-00-P]	SG4 EXTENDED [SG4-XX-XXX-00-P]
PIGTAIL		CONFIGURATION FOR MUTING	CONFIGURATION FOR BLANKING
ABLE FOR EMITTER*		CS-G1-50-B-002 (Order Number 95A252820)	
		M12, 5 poles, male	
		1 = brown = 24Vdc; 2 = white = TEST; 3 = blue = 0V; 4 = black = EARTH; 5 = grey = RANGE REDUCTION.	
EMITTER		1 5 0 3	
PIGTAIL ABLE FOR ECEIVER ^A	CS -R1-75- (Order Number		CS -G1-70-B-002 (Order Number 95A252830)
RECEIVER MAIN ONNECTOR	M12, 12 pole 1 = brown = 2 = blue 3 = white = RESET/F 4 = green = 0\) 5 = pink = \(6 = yellow\) 7 = black = MUTI 8 = grey = \(9 = red = OVI\) 10 = violet = ML 11 = grey-pink = OV 12 = red-blue	24Vdc = OV EESTART/ALIGN EERRIDE1 DSSD2 = EDM NG DISABLE DSSD1 ERRIDE2 TING LAMP ERRIDE STATUS	M12, 12 poles, male 1 = brown = 24Vdc 2 = blue = 0V 3 = white = RESET/RESTART/ALIGN 4 = green = TEACH IN 5 = pink = OSSD2 6 = yellow = EDM 8 = grey = OSSD1 9 = red = TOLERANCE 10 = violet = LAMP 12 = red-blue = EARTH
RECEIVER IECONDARY ONNECTOR	M12, 5 pole 1 = brown = 2 = white = N 3 = blue 4 = black = N	24Vdc MUTING2 = OV	

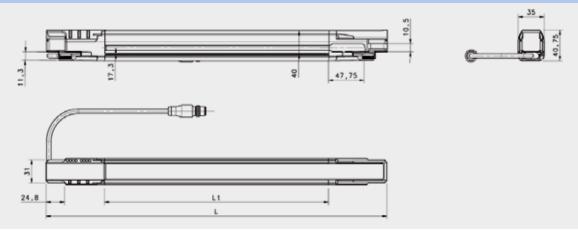
A IMPORTANT NOTES

- 1) The light curtain is sold without pigtail cables: they must be ordered separately for Transmitter and Receiver.
- 2) In case of SG4 EXTENDED, the choice of the Receiver pigtail determines if it will work in Muting configuration or in Blanking configuration.
- 3) In case the SG4 EXTENDED will be installed together with the programming and monitoring interface (DONGLE), the pigtail cable for Receiver isn't needed. See accessories table for more informations about DONGLE

SG2 MUTING SG4 EXTENDED

ACCESSORIES		
	SG2 MUTING [SG2-30-XXX-00-W]	SG4 EXTENDED [SG4-XX-XXX-00-P]
	BRACKETS	
Standard angled brackets (included)	ST-H	(STD
Antivibration support (4 pcs/6 pcs) A		KAAV KAAV
Plastic brackets (4 pcs/6 pcs) ^A	ST-KI ST-KI	P4MP P6MP
Orientable brackets (4 pcs/6 pcs) A		(40R (60R
	STANDS	
Protective Stands		3 series
Stand Plate for SG-PSB		j-P
Protective Stands Mounting Brackets (4 pcs/6 pcs) A		i-SG-SE S-SG-SE
Floor columns	Floor columns SE-S Series	
	MIRRORS	
Deviating Mirrors		1 Series
Deviating Mirrors mounting kit for SG-PSB	ST-PS-DM	
Mirror Mounting Bracket	ST-DM	
C-f-4:11-14	SAFETY UNITS	CD2
EDM Relay Box ^B	Safety Unit SE-SR2 EDM Relay Box B CS ME-03VU24-Y14	
Safety control unit for single beams and SLC		5-T4-MT
Safety control unit for single beams and SEC	ALIGNMENT TOOL	5-14-1011
LASER Pointer		-LP
	MMUNICATION TOOLS	
Ethernet Adaptor (Dongle)		SG4-DONGLE
Ethernet Cable		CAB-ETH-M01
CONI	FIGURATION SOFTWARE	
Monitoring and Programming Software ^C		ohic User Interface ^C
	UTING ACCESSORIES	
External muting lamps		series
Muting arms, brackets and cables NOTES	See muting acc	essories section

DIMENSIONS

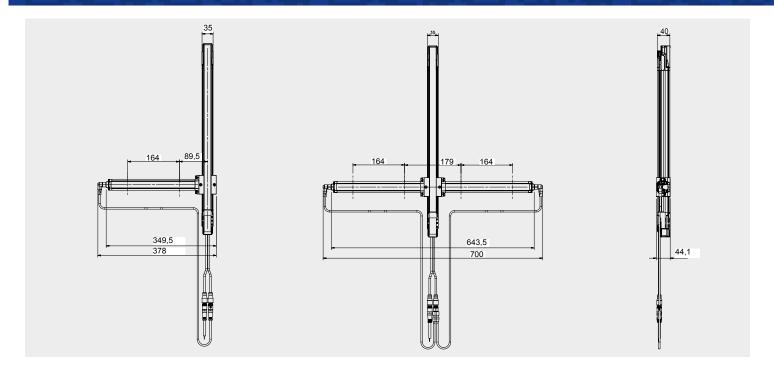


SG2 MUTING	SG4 EXTENDED	Lt (mm)	L (mm)
SG2-xx-030-00-W	SG4-xx-030-00-P	150	306,3
SG2-xx-045-00-W	SG4-xx-045-00-P	300	456,3
SG2-xx-060-00-W	SG4-xx-060-00-P	450	606,3
SG2-xx-075-00-W	SG4-xx-075-00-P	600	756,3
SG2-xx-090-00-W	SG4-xx-090-00-P	750	906,3
SG2-xx-105-00-W	SG4-xx-105-00-P	900	1056,3
SG2-xx-120-00-W	SG4-xx-120-00-P	1050	1206,3
SG2-xx-135-00-W	SG4-xx-135-00-P	1200	1356,3
SG2-xx-150-00-W	SG4-xx-150-00-P	1350	1506,3
SG2-xx-165-00-W	SG4-xx-165-00-P	1500	1656,3
SG2-xx-180-00-W	SG4-xx-180-00-P	1650	1806,3

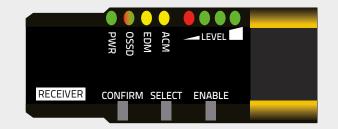
A Use 6 brackets for light curtains with length ≥ 1200 mm

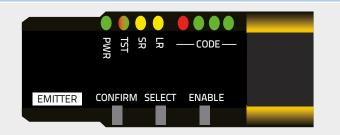
^B When using EDM Relay Box, connect EDM input, and be sure EDM function is active on the safety light curtain

^C SG EXTENDED GUI is available from DATALOGIC website



INDICATORS





AVAILABLE MODELS AND ORDER CODES

	SG2 MUTING [SG2-30-XXX-00-W]	ORDER NUMBER	SG4 EXTENDED [SG4-XX-XXX-00-P]	ORDER NUMBER
			SG4-14-030-00-P	957901240
			SG4-14-045-00-P	957901250
			SG4-14-060-00-P	957901260
			SG4-14-075-00-P	957901270
띹			SG4-14-090-00-P	957901280
68			SG4-14-105-00-P	957901290
麗			SG4-14-120-00-P	957901300
			SG4-14-135-00-P	957901310
			SG4-14-150-00-P	957901320
			SG4-14-165-00-P	957901330
			SG4-14-180-00-P	957901340
	SG2-30-030-00-W	957801700	SG4-30-030-00-P	957901350
	SG2-30-045-00-W	957801710	SG4-30-045-00-P	957901360
	SG2-30-060-00-W	957801720	SG4-30-060-00-P	957901370
<u> </u>	SG2-30-075-00-W	957801730	SG4-30-075-00-P	957901380
	SG2-30-090-00-W	957801740	SG4-30-090-00-P	957901390
윤	SG2-30-105-00-W	957801750	SG4-30-105-00-P	957901400
ᇦ	SG2-30-120-00-W	957801760	SG4-30-120-00-P	957901410
호	SG2-30-135-00-W	957801770	SG4-30-135-00-P	957901420
	SG2-30-150-00-W	957801780	SG4-30-150-00-P	957901430
	SG2-30-165-00-W	957801790	SG4-30-165-00-P	957901440
	SG2-30-180-00-W	957801800	SG4-30-180-00-P	957901450
NOTE:				

A The light curtain is sold without pigtail cables: they must be ordered separately for Transmitter and Receiver. In case of SG4 EXTENDED, the choice of the Receiver pigtail determines in Muting configuration or Blanking configuration. For cascade configurations, other cables are avilable to connect the cascaded units: refer to the accessories table.

CABLE ORDER CODES

	PIGTAIL CABLES/INTERFACE SELECTION TABLE			
		PIGTAIL CABLE/INTERFACE	LENGTH (m)	ORDER CODE
SG2 MUTING	TRANSMITTER	CS-G1-50-B-002	0.2	95A252820
[SG2-30-XXX-00-W]	RECEIVER	CS-R1-75-B-002	0.2	95A252810
	TRANSMITTER	CS-G1-50-B-002	0.2	95A252820
	RECEIVER	BLANKING CONFIGURATION		
		CS-G1-70-B-002	0.2	95A252830
SG4 EXTENDED			MUTING CONFIGURATION	
[SG4-XX-XXX-00-P]		CS-R1-75-B-002	0.2	95A252810
		DONGLE		
		SG4-DONGLE		95ASE2080

NOTES

- 1) The light curtain is sold without pigtail cables: they must be ordered separately for Transmitter and Receiver.
- 2) For SG4 EXTENDED, the pigtail cable used determines if the light curtain will work in Muting configuration or in Blanking configuration. If, in place of the pigtail cable, the Dongle is used for receiver, the light curtain can work in both configurations. When muting and blanking are not needed, Dongle or pigtail cable CS-G1-70-B-002 are suggested
- 3) If SG4 EXTENDED receiver is connected to the programming and monitoring interface (DONGLE), the pigtail cable for Receiver isn't needed.
- 4) In order to install SG4 EXTENDED or SG2 MUTING in place of SE series safety light curtains, without changing any wiring, it can be used the cable CS-G1-60-B-002 (order n. 95A252910) for receiver. All functions of SE will be available, except Override.







		CABLES SELECTION TABLE	
	TRANSMITTER/RECEIVER SECONDARY CONNECTOR	LENGTH (m)	ORDER CODE
	CS-A1-03-U-03	3	95ASE1170
	CS-A1-03-U-05	5	95ASE1180
	CS-A1-03-U-10	10	95ASE1190
	CS-A1-03-U-15	15	95ASE1200
SC3 MUTING	CS-A1-03-U-25	25	95ASE1210
SG2 MUTING [SG2-30-xxx-00-W]	CS-A1-03-U-50	50	95A252700
SG4 EXTENDED [SG4-xx-xxx-00-P]	RECEIVER MAIN CONNECTOR	LENGTH (m)	ORDER CODE
	CS-A1-10-U-03	3	95A252720
[34-77-777-00-7]	CS-A1-10-U-05	5	95A252730
	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

CASCADE CABLES				
MODEL	LENGTH (m)	ORDER CODE		
CS-F1-80-B-01	1	95A252840		
CS-F1-80-B-005	0.5	95A252850		
CS-F1-80-B-0005	0.05	95A252860		



ETHERNET CABLES				
LENGTH (m)	ORDER CODE			
1	93A051346			
3	93A051347			
5	93A051348			

