



SG Body Compact Base / Muting

COMPACT TYPE 2 AND TYPE 4 SAFETY LIGHT GRID FOR BODY DETECTION



Safety light curtain with compact housing and long operating range, ideal for access or perimeter control. Integrated muting and override functions.

- 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)



CODE DESCRIPTION

SG 2 - S2 - 050 - PP - X

serie	SG	SG Body Compact Base / Muting					
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	2 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)					
output	PP						
functionality	X	Basic (automatic restart)					
	E	Standard (auto/manual restart, EDM)					
	W	Integrated Muting, configurable with DIP switches, two connectors					
	N	Integrated Muting, configurable with DIP switches, one connector					

TECHNICAL SPECIFICATIONS

	SG*-*2-***-PP-*		SG*-*3-***-PP-*		SG*-*4-090-PP-*		SG*-*4-120-PP-*	
SAFETY TYPE 2 SAFETY TYPE 4 								
GENERAL DATA								
Operating principle		Emitter + Receiver						
Detection capability		500 mm		400 mm		300 mm		
MONITORED AREA								
Nominal sensing distance		0.5 ... 50 m						
Controlled height		500 mm		800 mm		900 mm		1200 mm
EMISSION DATA								
Emission		Infrared LED (880nm)						
Effective beam angle		≤ ±2.5 ° (SG4-**-***-PP-*), ≤ ±5 ° (SG2-**-***-PP-*)						
FUNCTIONS								
Available functions		Automatic Restart (SG*-**-***-PP-X), Manual/Automatic Restart, EDM (SG*-**-***-PP-E), Manual/Automatic Restart, EDM, L/T Muting, Override (SG*-**-***-PP-W), Manual/Automatic Restart, EDM, L/T Muting, Partial Muting, Override, Range Reduction (on TX) (SG*-**-***-PP-N)						
Included accessories		Standard “L” Mounting Brackets: 4 pcs kit					Standard “L” Mounting Brackets: 6 pcs kit	
SAFETY PARAMETERS								
Type		2 (SG2-**-***-PP-*), 4 (SG4-**-***-PP-*)						
PL		c (SG2-**-***-PP-*), e (SG4-**-***-PP-*)						
SIL		SIL 1 (IEC 61508) (SG2-**-***-PP-*), SIL 3 (IEC 61508) (SG4-**-***-PP-*)						
INPUT/OUTPUT								
Output type		2 x PNP (OSSD safety output)						
ELECTRICAL DATA								
Supply voltage		24 Vdc ±20%						
Power consumption - Emitter		≤ 0.9 W						
Power consumption - Receiver		≤ 2.2 W without load						
Maximum DC load current		500 mA each output						
Capacitive load tolerated		≤ 65 nF						
Equivalent resistive load		≥ 56 Ω						
MECHANICAL DATA								
Dimensions		35 x 41.9 x (664) mm		35 x 41.9 x (964) mm		35 x 41.9 x (1064) mm		35 x 41.9 x (1364) mm
Material		Painted aluminum / PMMA / PC Lexan 943A						
Connections		M12-4 poles (emitter) M12-5 poles (receiver) (SG4-**-***-PP-X), M12-4 poles (emitter) M12-8 poles (receiver) (SG*-**-***-PP-E/N), M12-4 poles + M12-5 poles (emitter) M12-8 poles + M12-5 poles (receiver) (SG*-**-***-PP-W)						
Length of cables (Power)		≤ 50 m						
CERTIFICATIONS								
Shocks		16 ms (10 G) 1,000 shocks per axis (EN 60068-2-29)						
Vibrations		Width 0.35 mm, frequency 10 ... 55Hz; 20 sweep per axis, 1octave/min (EN 60068-2-6)						
Electromagnetic compatibility		IEC EN 60947-5-2						
ENVIRONMENTAL DATA								
Operating Temperature		0 ... 55 °C						
Storage temperature max.		-25 ... 70 °C						
Mechanical Protection		IP65						
Humidity		15 ... 95 % no condensation						
Ambient light immunity		According to IEC 61496-2						

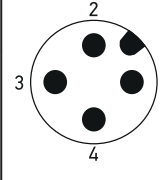
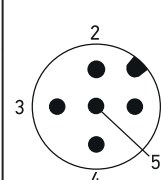
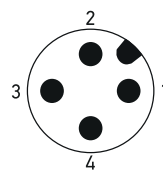
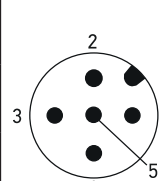
AVAILABLE MODELS

Type	Detection capability	Nominal sensing distance	Controlled height	Beams number	Response time	Model
2	Body protection 2 beams 500 mm	0.5 ... 50 m	500 mm	2	14 ms	SG2-S2-050-PP-E (957851000)
	SG2-T2-050-PP-W (957851140)					
	SG2-S2-050-PP-W (957851080)					
	SG2-L2-050-PP-W (957851120)					
	Body protection 3 beams 400 mm		800 mm	3		SG2-S3-080-PP-E (957851010)
	SG2-T3-080-PP-W (957851150)					
	SG2-L3-080-PP-W (957851130)					
	SG2-S3-080-PP-W (957851090)					
4	Body protection 2 beams 500 mm	0.5 ... 50 m	500 mm	2	14 ms	SG4-S2-050-PP-E (957851040)
	SG4-S2-050-PP-W (957851160)					
	SG4-L2-050-PP-W (957851200)					
	SG4-T2-050-PP-W (957851220)					
	SG4-S2-050-PP-X (957851600)					
	Body protection 2 beams muting 500 mm		800 mm	3		SG4-S2-050-PP-N (957851640)
	Body protection 3 beams 400 mm					SG4-S3-080-PP-E (957851050)
	SG4-S3-080-PP-W (957851170)					
	SG4-T3-080-PP-W (957851230)					
	SG4-L3-080-PP-W (957851210)					
Body protection 3 beams 400 mm			SG4-S3-080-PP-X (957851610)			
Body protection 3 beams muting 400 mm			SG4-S3-080-PP-N (957851650)			

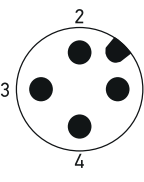
AVAILABLE MODELS

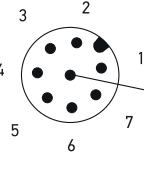
Type	Detection capability	Nominal sensing distance	Controlled height	Beams number	Response time	Model
2	Body protection 4 beams 300 mm	0.5 ... 50 m	900 mm	4	16 ms	SG2-S4-090-PP-E (957851020)
	Body protection 4 beams muting 300 mm					SG2-S4-090-PP-W (957851100)
4	Body protection 4 beams 300 mm			4		SG4-S4-090-PP-E (957851060)
	Body protection 4 beams muting 300 mm					SG4-S4-090-PP-W (957851180)
	Body protection 4 beams 300 mm		2	SG4-S4-090-PP-X (957851620)		
	Body protection 4 beams muting 300 mm			SG4-S4-090-PP-N (957851660)		
2	Body protection 4 beams 300 mm		1200 mm	4		SG2-S4-120-PP-E (957851030)
	Body protection 4 beams muting 300 mm					SG2-S4-120-PP-W (957851110)
4	Body protection 4 beams 300 mm	SG4-S4-120-PP-W (957851190)				
	Body protection 4 beams 300 mm	SG4-S4-120-PP-E (957851070)				
	Body protection 4 beams muting 300 mm	SG4-S4-120-PP-X (957851630)				
		3		SG4-S4-120-PP-N (957851670)		

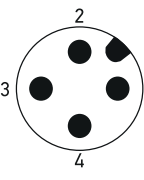
CONNECTIONS

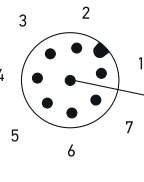
SG4-S*-***-PP-X (Emitter)				SG4-S*-***-PP-X (Receiver)			
 MALE M12 4 pins Safety	1	Brown	24 Vdc	 MALE M12 5 pins Safety	1	Brown	24 Vdc
	2	White	NOT USED		2	White	OSSD1
	3	Blue	0 V		3	Blue	0 V
	4	Black	NOT USED		4	Black	OSSD2
					5	Gray	NOT USED
SG4-S*-***-PP-X (Emitter)				SG4-S*-***-PP-X (Receiver)			
 MALE M12 4 pins Safety	1	Brown	24 Vdc	 MALE M12 5 pins Safety	1	Brown	24 Vdc
	2	White	NOT USED		2	White	OSSD1
	3	Blue	0 V		3	Blue	0 V
	4	Black	NOT USED		4	Black	OSSD2
					5	Gray	NOT USED

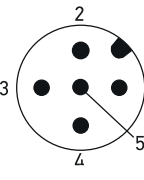
CONNECTIONS

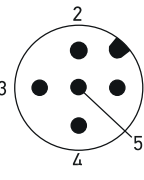
SG*-S*-***-PP-E (Emitter)			
	1	Brown	24 Vdc
	2	White	NOT USED
	3	Blue	0 V
	4	Black	NOT USED
MALE M12 4 pins Safety			

SG*-S*-***-PP-E (Receiver)			
	1	White	TEST/START
	2	Brown	24 Vdc
	3	Green	NOT USED
	4	Yellow	EDM
	5	Grey	OSSD1
	6	Pink	OSSD2
	7	Blue	0 Vdc
	8	Red	NOT USED
MALE M12 8 pins Safety			

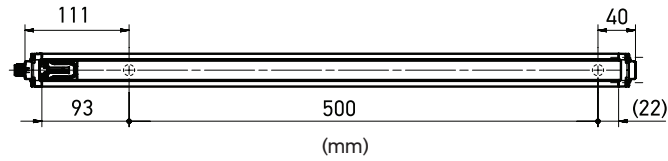
SG*-***-PP-W (Emitter)			
	1	Brown	24 Vdc
	2	White	NOT USED
	3	Blue	0 V
	4	Black	NOT USED
MALE M12 4 pins Safety			

SG*-***-PP-W (Receiver)			
	1	White	TEST/START
	2	Brown	24 Vdc
	3	Green	OVERRIDE1
	4	Yellow	EDM
	5	Grey	OSSD1
	6	Pink	OSSD2
	7	Blue	0 Vdc
	8	Red	OVERRIDE2
MALE M12 8 pins Safety			

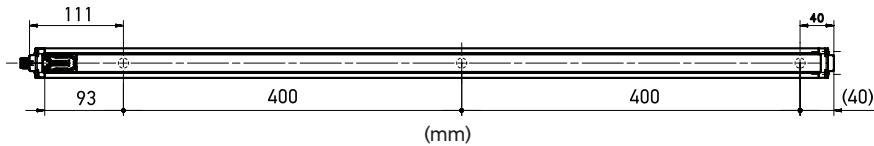
SG*-***-PP-W (Receiver)			
	1	Brown	24 Vdc
	2	White	NOT USED
	3	Blue	0 V
	4	Black	NOT USED
	5	Gray	NOT USED
MALE M12 5 pins Safety			

SG*-***-PP-W (Receiver)			
	1	Brown	24 Vdc
	2	White	MUTING2
	3	Blue	0 V
	4	Black	MUTING1
	5	Gray	NOT USED
MALE M12 5 pins Safety			

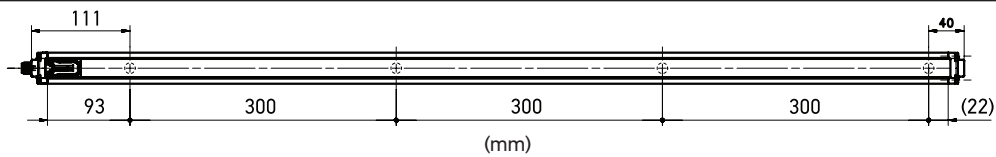
SG*-**-050-PP-*



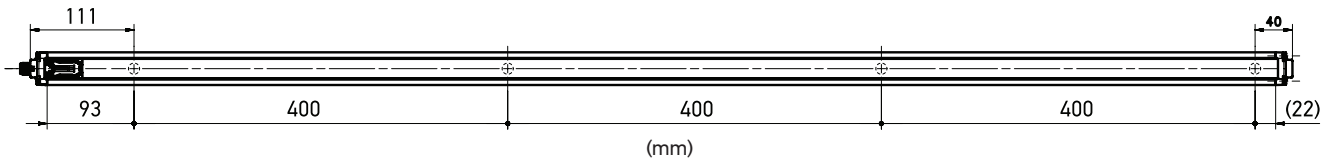
SG*-**-080-PP-*



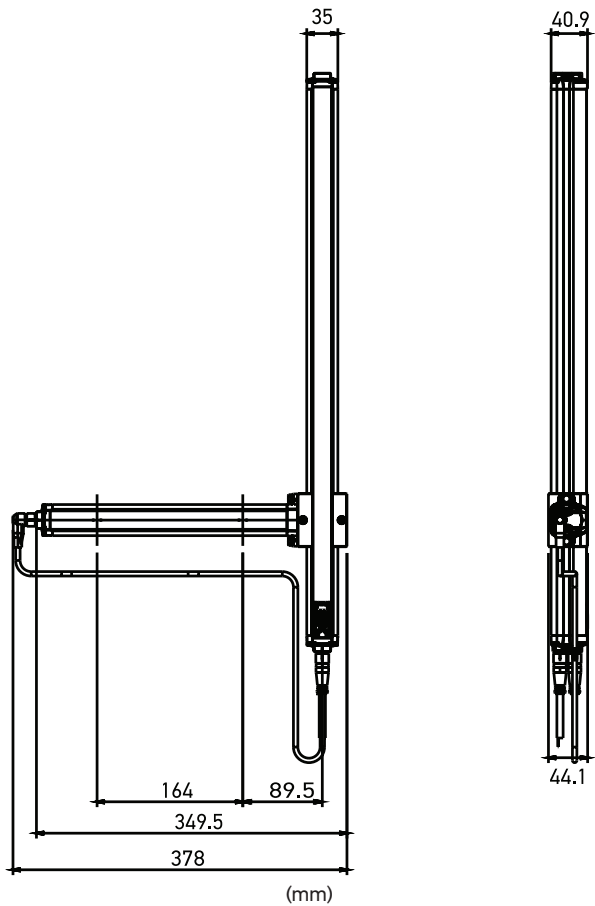
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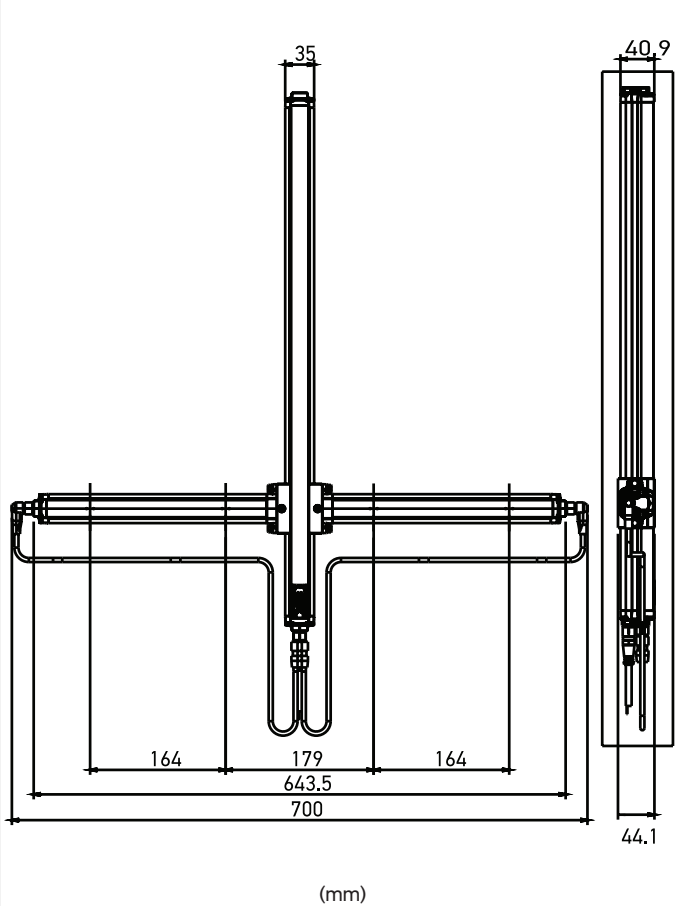
SG*-**-120-PP-*



SG*-L*-**-PP-W SG BODY COMPACT BASE \ MUTING + L arm



SG*-T*-**-PP-W SG BODY COMPACT BASE \ MUTING + T arm



ACCESSORIES TO BE ORDERED SEPARATELY

	Model	Description	Article code
Cables	CV-A1-22-B-03	Cable M12 4 poles axial female shielded 3m	95ACC1480
	CV-A1-22-B-05	Cable M12 4 poles axial female shielded 5m	95ACC1490
	CV-A1-22-B-10	Cable M12 4 poles axial female shielded 10m	95ACC1500
	CV-A1-22-B-15	Cable M12 4 poles axial female shielded 15m	95ACC2070
	CV-A1-22-B-25	Cable M12 4 poles axial female shielded 25m	95ACC2090
	CV-A1-26-B-03	Cable M12 8 poles axial female shielded 3m	95ACC1510
	CV-A1-26-B-05	Cable M12 8 poles axial female shielded 5m	95ACC1520
	CV-A1-26-B-10	Cable M12 8 poles axial female shielded 10m	95ACC1530
	CV-A1-26-B-15	Cable M12 8 poles axial female shielded 15m	95ACC2080
	CV-A1-26-B-25	Cable M12 8 poles axial female shielded 25m	95ACC2100
Connection boxes	SG-SRT-1	Muting connection box with forcibly guided relays 2NO start pushbutton override key selector	95ASE2050
	SG-SRT-2	Muting connection box with forcibly guided relays 2NO start pushbutton override key selector muting lamp	95ASE2060
Laser pointers	SG-LP	Laser pointer for SG light curtains	95ASE5590
Mirrors	SG-DM-150	Deviating mirror for light curtains h=150mm	95ASE1670
	SG-DM-600	Deviating mirror for light curtains h=600mm	95ASE1680
	SG-DM-900	Deviating mirror for light curtains h=900mm	95ASE1690
	SG-DM-1200	Deviating mirror for light curtains h=1200mm	95ASE1700
	SG-DM-1650	Deviating mirror for light curtains h=1650mm	95ASE1710
	SG-DM-1900	Deviating mirror for light curtains h=1900mm	95ASE1720
Mirrors brackets	ST-PS-DM	SG-PSB protective stand mounting kit for mirror SG-DM 2 nuts	95ASE1770
Mounting brackets	ST-KSTD	Metal angled brackets 4 pcs kit for SG/SH4	95ACC1670
	ST-KSTD (30 pcs)	Metal angled brackets Box 30 x 4 pcs	95ASE2800
	ST-K4ROT-SG	Metal top-bottom rotative brackets 4 pcs kit for SG BODY COMPACT	95ASE2040
	ST-K4AV	Anti vibration supports 4 pcs kit to be used with ST-KSTD	95ACC1700
	ST-K6AV	Anti vibration supports 6 pcs kit to be used with ST-KSTD	95ACC1710
	ST-K4AV (30 pcs)	Anti vibration supports Box 30 x 4 pcs	95ASE2770
	ST-KP4MP	Plastic angled brackets 4 pcs kit	95ASE1100
	ST-KP6MP	Plastic angled brackets 6 pcs kit	95ASE1110
Muting lamps	LMS-1	Modular muting lamp	95ACC1990
	LMS-2	Muting lamp horizontal fixing	95ACC2000
	LMS-3	Muting lamp vertical fixing	95ACC2010
	LMS	Muting lamp	95ASE1830
Protective stands	SG-PSM-2-500	Protective stand with 2 adjustable mirrors h=500mm	95ASE2300
	SG-PSM-3-800	Protective stand with 3 adjustable mirrors h=800mm	95ASE2310
	SG-PSM-4-900	Protective stand with 4 adjustable mirrors h=900mm	95ASE2320
	SG-PSM-4-1200	Protective stand with 4 adjustable mirrors h=1200mm	95ASE2330
	SG-PSB-600	Protective stand for light curtains h=600mm	95ASE2240
	SG-PSB-1000	Protective stand for light curtains h=1000mm	95ASE2250
	SG-PSB-1200	Protective stand for light curtains h=1200mm	95ASE2260
	SG-PSB-1650	Protective stand for light curtains h=1650mm	95ASE2270
	SG-PSB-1900	Protective stand for light curtains h=1900mm	95ASE2280
Protective stands brackets kit	SG-P	Plate with springs for protective stands SG-PSB and SG-PSM	95ASE2290
	ST-PS4-SG-SE	SG-PSB protective stand mounting kit for SG/SH4 4 brackets	95ASE1750
	ST-PS6-SG-SE	SG-PSB protective stand mounting kit for SG/SH4 6 brackets	95ASE1760

ACCESSORIES TO BE ORDERED SEPARATELY

	Model	Description	Article code
Safety control units	SG-BWS-T4-MT	Safety control unit for S5 SL5 S300 safety sensors pl=e double muting 4 beams	957051010
Safety units	SE-SR2	Safety unit 3NO + 1NC outputs	95ACC6170
	CSME-03VU24-Y14	Forced guided relay interface 3NO + 1 NC	95ASE1270
Vertical supports	SE-S-1000	Column for light curtains and floor stand h=1000 mm	95ACC1740
	SE-S-1200	Column for light curtains and floor stand h=1200 mm	95ACC1750
	SE-S-1500	Column for light curtains and floor stand h=1500 mm	95ACC1760
	SE-S-1800	Column for light curtains and floor stand h=1800 mm	95ACC1770
	SE-S-800	Column for light curtains and floor stand h=800 mm	95ACC1730

NOTE : When using CS-ME, connect EDM input, and be sure EDM function is active on the safety light curtain.