



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
080		800 mm (3 beams)
090		900 mm (4 beams)
120		1200 mm (4 beams)
output	PP	
	X	Basic (automatic restart)
functionality	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-*
				
				
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	$\leq \pm 2.5^\circ$ (SG4-**-***-PP-*) , $\leq \pm 5^\circ$ (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 $\pm 20\%$			
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, 1 octave/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			

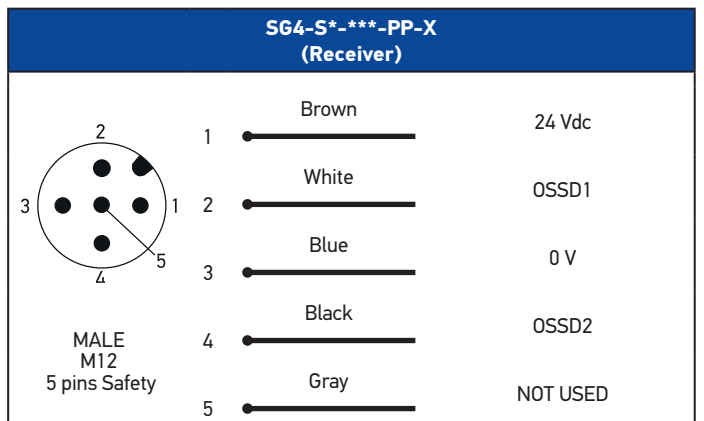
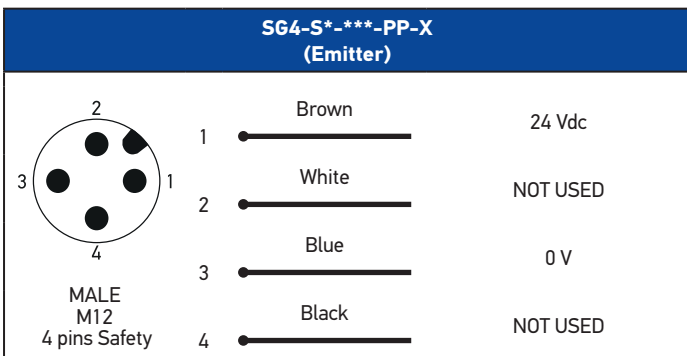
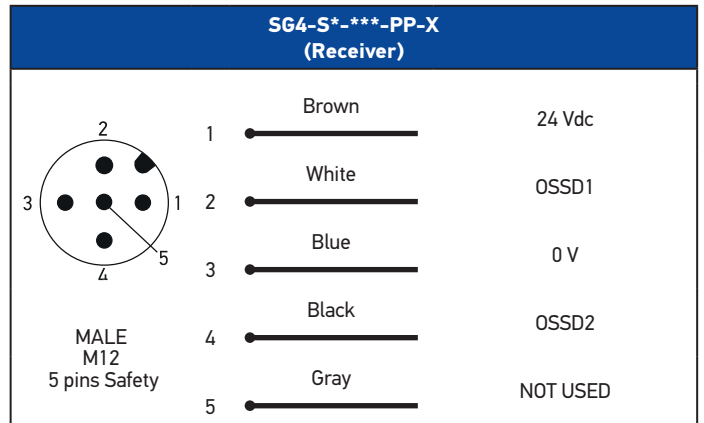
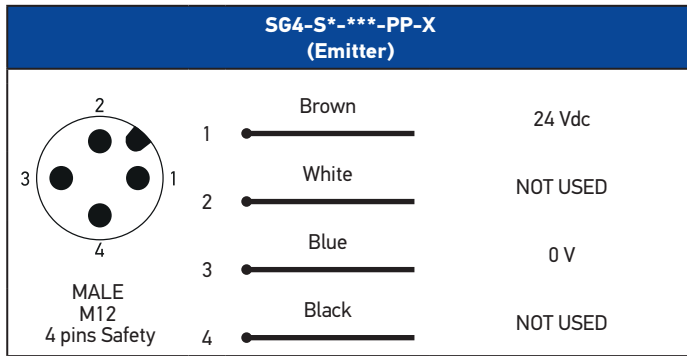
AVAILABLE MODELS

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)		
	Body protection 2 beams muting 500 mm					SG2-T2-050-PP-W (957851140)		
	Body protection 3 beams 400 mm					SG2-S2-050-PP-W (957851080)		
	Body protection 3 beams muting 400 mm		SG2-L2-050-PP-W (957851120)					
	Body protection 3 beams 400 mm		800 mm	3		SG2-S3-080-PP-E (957851010)		
	Body protection 3 beams muting 400 mm					SG2-T3-080-PP-W (957851150)		
	SG2-L3-080-PP-W (957851130)							
4	Body protection 2 beams 500 mm	0.5 ... 50 m	500 mm	2	14 ms	SG4-S2-050-PP-E (957851040)		
	Body protection 2 beams muting 500 mm					SG4-S2-050-PP-W (957851160)		
	Body protection 2 beams 500 mm					SG4-L2-050-PP-W (957851200)		
	Body protection 2 beams muting 500 mm					SG4-T2-050-PP-W (957851220)		
	Body protection 3 beams 400 mm					800 mm	3	SG4-S2-050-PP-X (957851600)
	Body protection 3 beams 400 mm							SG4-S2-050-PP-N (957851640)
	Body protection 3 beams 400 mm		SG4-S3-080-PP-E (957851050)					
	Body protection 3 beams muting 400 mm		SG4-S3-080-PP-W (957851170)					
	Body protection 3 beams 400 mm		SG4-T3-080-PP-W (957851230)					
	Body protection 3 beams muting 400 mm		SG4-L3-080-PP-W (957851210)					
			SG4-S3-080-PP-X (957851610)					
			SG4-S3-080-PP-N (957851650)					

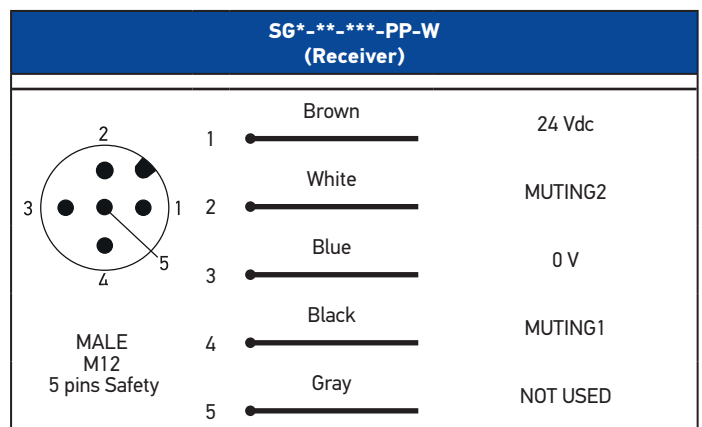
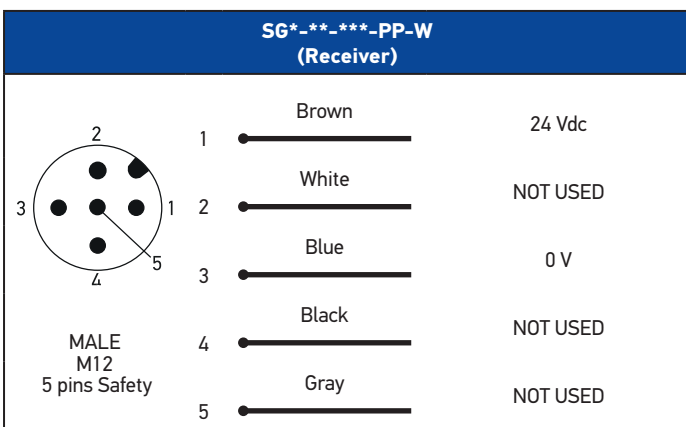
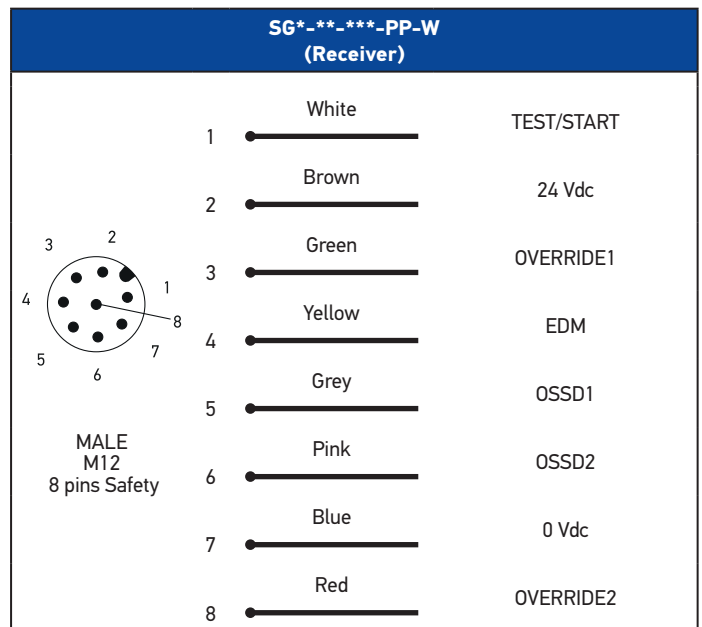
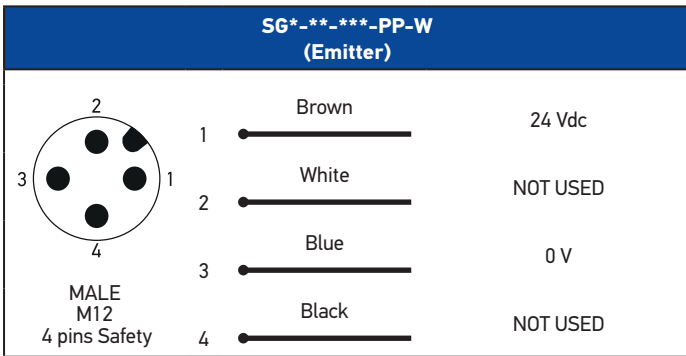
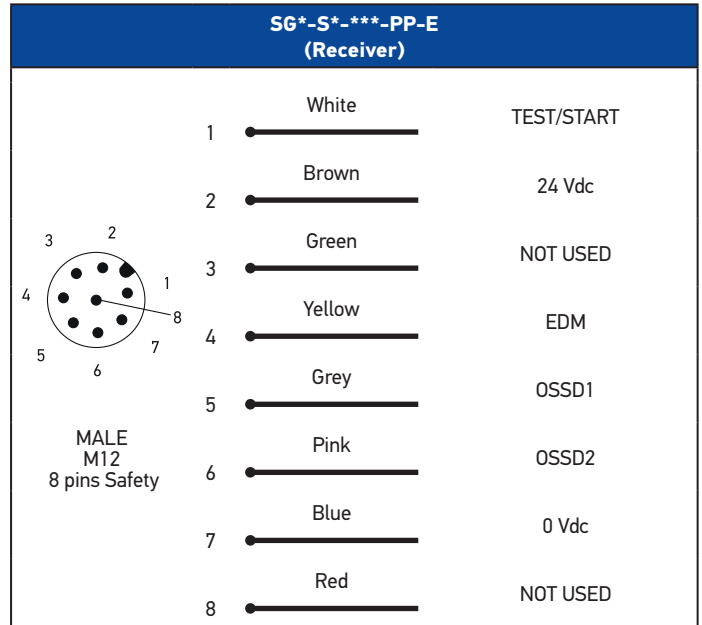
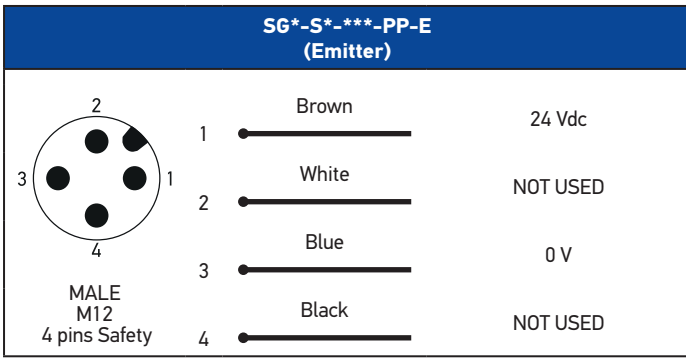
AVAILABLE MODELS

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			4		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	3		SG4-S4-120-PP-X (957851630)		
	Body protection 4 beams muting 300 mm			SG4-S4-120-PP-N (957851670)		

CONNECTIONS

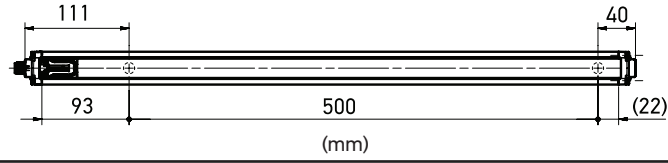


CONNECTIONS

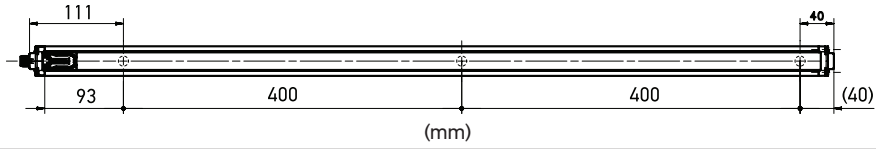


MECHANICAL DRAWINGS

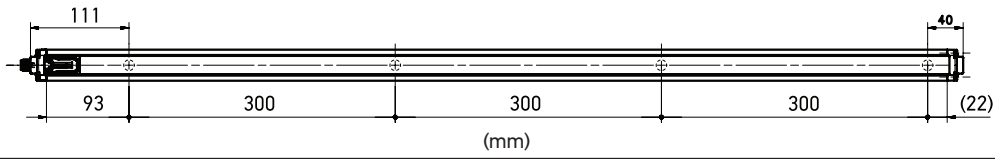
SG*--050-PP-***



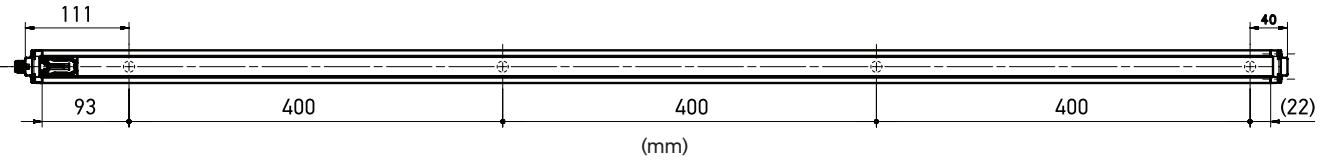
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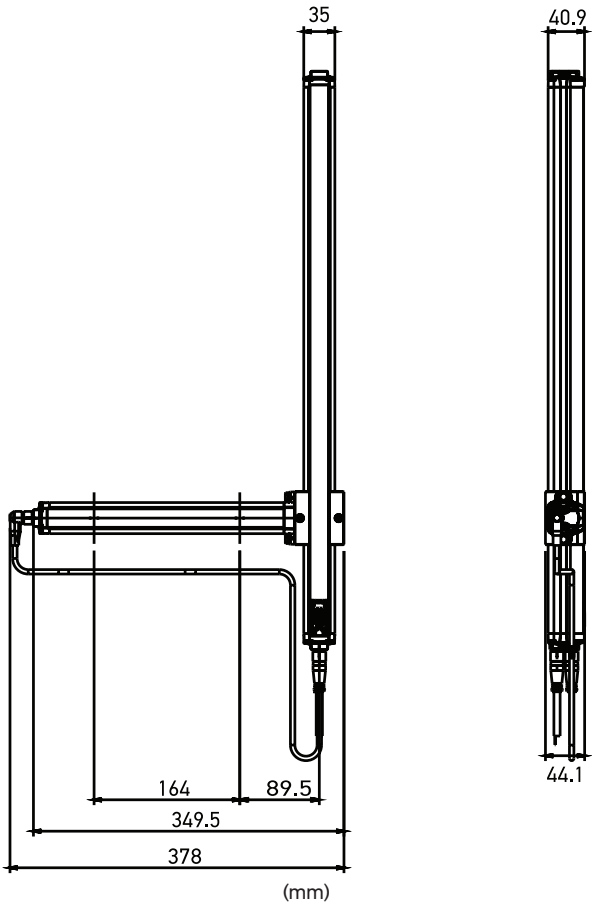
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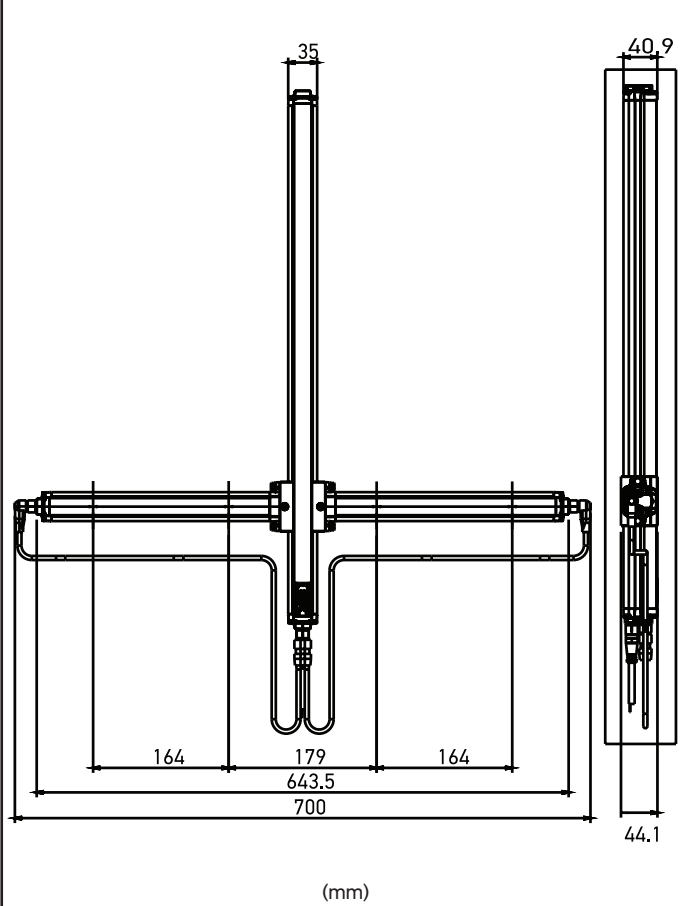
SG*--120-PP-***



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
	SG-P	Plate with springs for protective stands SG-PSB and SG-PSM	95ASE2290
Protective stands brackets kit	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.