#### **COLATACO**

# SG BODY BIG BASE SG BODY BIG MUTING



Robust housing for harsh environments Long operating range for perimeter control Rapid solution for access control with muting Easy installation and alignment

- 2, 3, 4 beams for body protection
- 40 mm resolution for arm protection and presence detection
- Controlled heights 500, 800, 900 and 1200 mm
- Long operating distance: up to 60 m
- Simple configuration through DIP switches
- Integrated muting lamp (only muting models)
- Anti-interference coding
- External muting enable signal
- Edged or triggered muting dependent override

#### **APPLICATIONS**

- Automatic machines
- Robots
- Automatic assembly lines
- Palletizers and depalletizers
- Material handling



			FINGER	HAND	ARM	B
Food & Beverage		Type 2				
Metalworking Automotive Nood Ceramics		Type 4			Х	
				VERSION		
	ТҮРЕ			VERSION		
	2 Type 2 4 Type 4	050 500 mm (2 bear 080 800 mm (3 bear	· F		without function	
		090 900 mm (4 bear	ms)	Muting, wit	th integrated	
	BEAMS AND RANGE	120 1200 mm (4 bea	ms) W-C	muting	function	
B2	2 Beams					
B3	3 Beams					
B4	4 Beams	SG	4-4(		60	<b>D (</b>
BSR2	2 Beams Short Range (only type 4)					
BSR3	3 Beams Short Range (only type 4)					
BSR4	4 Beams Short Range (only type 4)			MONUTO	DRED HEIGHT	
BLR2	2 Beams Long Range (only type 4)					
BLR3	3 Beams Long Range (only type 4)			060	660 mm	
	4 Beams Long Range (only type 4)			090	960 mm	
BLR4	· · · · · · · · · · · · · · · · ·					

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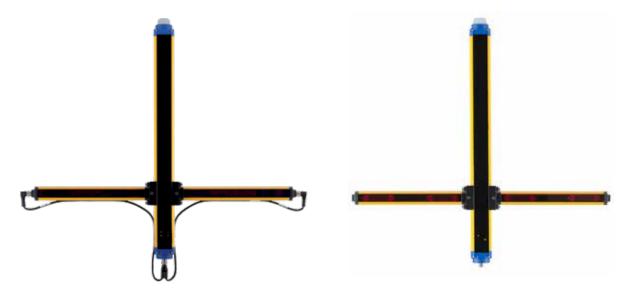
#### **\$DATALOGIC**

## TECHNICAL DATA

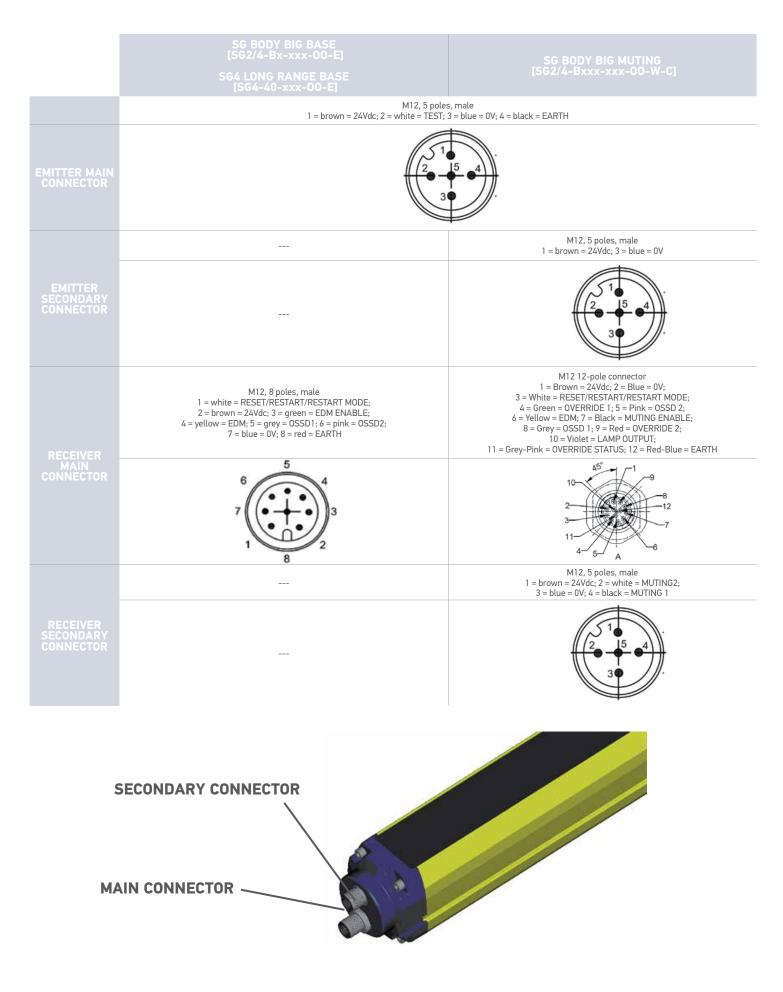
	SG2 BODY BIG BASE [SG2-Bx-xxx-00-E]	SG2 BODY BIG MUTING [SG2-Bxxx-xxx-00-W-C]	SG4 BODY BIG BASE [SG4-Bx-xxx-00-E]	SG4 BODY BIG MUTING [SG4-Bxxx-xxx-00-W-C]	SG4 LONG RANGE BASE [SG4-40-xxx-00-E]			
		GENERAL	DATA					
Туре (ЕN61496-1-2)		4						
PL (EN ISO 13849-1)		С		e				
SIL (IEC 61508)		1		3				
Resolution		319,75 mm (4 beams) 419,75 mm (3 and 4 beams) 519,75 mm (2 beams)						
Operating distance	0.5	5 60 m	50 m 6 60 m		6 60 m			
Retroreflective muting arms operating distance (not included)		0.5 3 m		0.5 3 m (Only for Short Range model)				
Emitter-Receiver muting arms operating distance		0.5 7 m		0.5 7 m				
Protected height		660 mm 960 mm 1260 mm						
		ELECTRICA						
Power supply (Vdd)			24 Vdc ± 20%					
Outputs	2 PNP							
Output current	0.5 A max/each output							
Capacitive load			2,2 uF max at 25°C		1			
Response time	11 24 ms depending on model <sup>A</sup> 20 24 ms depending on model <sup>A</sup>							
Cables length (for power supply)			70 m max.		1 3			
		MECHANICAL AND ENV	IRONMENTAL DATA					
Operating temperature	0+55 ℃							
Humidity	15 95 % (no condensation)							
Mechanical protection			IP 65 (EN 60529)					
		FUNCTI						
			Test input					
	Manual/Automatic restart External Device Monitoring (EDM)							
	Coding selection with DIP-SW							
		T-Muting/L-Muting		, T-Muting/L-Muting				
		Muting timeout: 10 min. or ∞		Muting timeout: 10 min. or ∞				
		Integrated muting lamp		Integrated muting lamp				
		Override		Override				
		Muting enable input		Muting enable input				
		Override status output		Override status output				
		Muting lamp output		Muting lamp output				

NOTES

<sup>A</sup> For detailed informations refer to related Product Datasheet or Manual



#### CONNECTIONS



#### ACCESSORIES

	SG BODY BIG BASE [SG2/4-Bx-xxx-00-E]	SG BODY BIG MUTING [SG2/4-Bxxx-xxx-00-W-C]	SG4 LONG RANGE BASE [SG4-40-xxx-00-E]					
Included with the light curtain	None							
Standard angled brackets (4 pcs)		ST-K4STD-SG-BODY BIG						
Rear fixing bracket mounting (4 pcs)		ST-K4REAR-SG BODY BIG						
Rotating brackets (4 pcs)		ST-K4ROT-SG BODY BIG						
Antivibration support (4 pcs/6 pcs) <sup>c</sup>		ST-K4AV ST-K6AV						
Plastic brackets (4 pcs/6 pcs) <sup>c</sup>	ST-KP4MP ST-KP6MP							
	PROTECTION TUBES, STANDS							
IP67/IP69K tubes								
Protective stands		SG-PSB series <sup>B</sup>						
Stand plate for SG-PSB	SG-P							
Protective stands mounting brackets (4 Pcs/6 pcs) <sup>c</sup>	ST-PS4-SG BODY ST-PS6-SG BODY							
Floor columns	SE-S Series							
	MIRRORS							
Protective stands with single mirrors	SG-PS							
Deviating mirrors mounting kit for SG-PSB	ST-PS-DM							
Deviating mirrors	SG-DM series							
Mirror mounting bracket	ST-DM							
	SAFETY UNIT							
Safety unit	SE-SR2							
Edm relay box <sup>d</sup>	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 70						
Muting connection box <sup>d</sup>		SG-SRT-1						
External muting lamps		LMS series						

NOTES

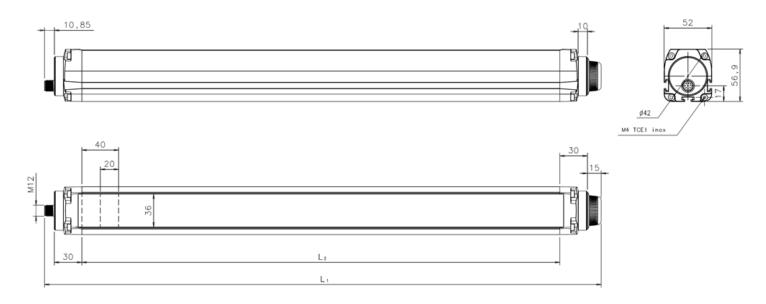
 $^{\rm B}\,\rm Not$  possible with T or L muting arms mounted

<sup>C</sup> Use 6 brackets for light curtains with length  $\ge$  1200 mm

D When using EDM Relay Box or Muting connection box, connect EDM input, and be sure EDM function is active on the safety light curtain

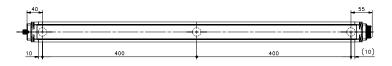


## DIMENSIONS (MM)



### DIMENSIONS (MM)







MODEL	L1 [mm]	L2 [mm]
SGx-B2-050-00-E	606,35	520,5
SGx-B3-080-00-E	906,35	820,5
SGx-B4-090-00-E	1006,35	920,5
SGx-B4-120-00-E	1306,35	1220,5
SG4-40-060-00-E	783,35	700,5
SG4-40-090-00-E	1083,35	1000,5
SG4-40-120-00-E	1383,35	1300,5
SGx-Byy2-050-00-W-C	609,35	520,5
SGx-Byy3-080-00-W-C	909,35	820,5
SGx-Byy4-090-00-W-C	1009,35	920,5
SGx-Byy4-120-00-W-C	1309,35	1220,5



#### **INDICATORS**



#### MODEL SELECTION AND ORDER INFORMATION

	BODY PROTECTION					ARM PROTECTION PRESENCE DETECTION			
MUTING	SG2 BODY BIG BASE [SG2-BX-XXX-00-E]	ORDER CODE	MUTING	SG4 BODY BIG BASE [SG4-BX-XXX-00-E]	ORDER CODE	IGE	SG4 LONG RANGE BASE [SG4-40-XXX-00-E]	ORDER CODE	
	SG2-B2-050-00-E	957851240	M	SG4-B2-050-00-E	957851280	RANG	SG4-40-060-00-E	957851570	
5	SG2-B3-080-00-E	957851250	OUT	SG4-B3-080-00-E	957851290		SG4-40-090-00-E	957851580	
WITHOUT	SG2-B4-090-00-E	957851260	WITH	SG4-B4-090-00-E	957851300	ONG	SG4-40-120-00-E	957851590	
≥	SG2-B4-120-00-E	957851270	Z	SG4-B4-120-00-E	957851310				
MUTING	SG2 BODY BIG MUTING [SG2-BXXX-XXX-00-W-C]	ORDER CODE	RANGE	SG4 BODY BIG MUTING [SG4-BXXX-XXX-00-W-C]	ORDER CODE				
5	SG2-B2-050-00-W-C	957851320	RA	SG4-BSR2-050-00-W-C	957851400				
	SG2-B3-080-00-W-C	957851330	SHORT	SG4-BSR3-080-00-W-C	957851410				
TED	SG2-B4-090-00-W-C	957851340	BHG	SG4-BSR4-090-00-W-C	957851420				
INTEGRAT	SG2-B4-120-00-W-C	957851350		SG4-BSR4-120-00-W-C	957851430				
Ĕ			Э	SG4-BLR2-050-00-W-C	957851360				
			RANG	SG4-BLR3-080-00-W-C	957851370				
WITH			8	SG4-BLR4-090-00-W-C	957851380				
3			LONG	SG4-BLR4-120-00-W-C	957851390				

#### CABLES

	TRANSMITTER CABLE (MAIN CONNECTOR)	LENGTH (m)	ORDER CODE	
SG BODY BIG BASE	CS -A1-03-U-03	3	95ASE 1170	
[SG2-Bx-xxx-00-E] [SG4-Bx-xxx-00-E]	CS -A1-03-U-05	5	95ASE 1180	
SG4 LONG RANGE BASE	CS -A1-03-U-10	10	95ASE 1190	
SG4 LONG RANGE BASE [SG4-40-xxx-00-E]	CS -A1-03-U-15	15	95ASE 1200	
SG BODY BIG MUTING	CS -A1-03-U-25	25	95ASE 1210	
[SG2-Bx-xxx-00-W-C] [SG4-Bxxx-xxx-00-W-C]	CS -A1-03-U-50	50	95A252700	
	RECEIVER CABLE (MAIN CONNECTOR)	LENGTH (m)	ORDER CODE	
SG BODY BIG BASE	CS -A1-06-U-03	3	95ASE1220	
[SG2-Bx-xxx-00-E] [SG4-Bx-xxx-00-E]	CS -A1-06-U-05	5	95ASE1230	
[SG4-BX-XXX-UU-E]	CS -A1-06-U-10	10	95ASE1240	
	CS -A1-06-U-15	15	95ASE1250	
SG4 LONG RANGE BASE [SG4-40-xxx-00-E]	CS -A1-06-U-25	25	95ASE1260	
	CS -A1-06-U-50	50	95A252710	
	CS -A1-10-U-03	3	95A252720	
	CS -A1-10-U-05	5	95A252730	
SG BODY BIG MUTING	CS -A1-10-U-10	10	95A252740	
[SG2-Bx-xxx-00-W-C] [SG4-Bxxx-xxx-00-W-C]	CS -A1-10-U-15	15	95A252750	
	CS -A1-10-U-25	25	95A252760	
	CS -A1-10-U-50	50	95A252770	
	TRANSMITTER CABLE (SECONDARY CONNECTOR) RECEIVER CABLE (SECONDARY CONNECTOR)	LENGTH (m)	ORDER CODE	
	CS -A1-03-U-03	3	95ASE 1170	
	CS -A1-03-U-05	5	95ASE 1180	
SG BODY BIG MUTING	CS -A1-03-U-10	10	95ASE 1190	
[SG2-Bx-xxx-00-W-C] [SG4-Bxxx-xxx-00-W-C]	CS -A1-03-U-15	15	95ASE 1200	
	CS -A1-03-U-25	25	95ASE 1210	
	CS -A1-03-U-50	50	95A252700	

#### NOTES

All cables have axial connectors

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