

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

INDUSTRIES

- Food & Beverage
- Metalworking
- Automotive
- Wood
- Ceramics

	FINGER	HAND	ARM	BODY
Type 2				x
Type 4			x	x

SG 2 - B2 - 050 - 00 - E

TYPE	
2	Type 2
4	Type 4

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

VERSION	
E	Base: without muting function
W-C	Muting: with integrated muting function

BEAMS AND RANGE	
B2	2 Beams
B3	3 Beams
B4	4 Beams
BSR2	2 Beams Short Range (only type 4)
BSR3	3 Beams Short Range (only type 4)
BSR4	4 Beams Short Range (only type 4)
BLR2	2 Beams Long Range (only type 4)
BLR3	3 Beams Long Range (only type 4)
BLR4	4 Beams Long Range (only type 4)

SG 4 - 40 - 060 - 00 - E

MONITORED HEIGHT	
060	660 mm
090	960 mm
120	1260 mm

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					
Type (EN61496-1-2)	2		4		
PL (EN ISO 13849-1)	c		e		
SIL (IEC 61508)	1		3		
Resolution	319,75 mm (4 beams) 419,75 mm (3 and 4 beams) 519,75 mm (2 beams)			40 mm	
Operating distance	0.5 ... 60 m		6 ... 60 m	0.5 ... 30 m (Short Range model) 6 ... 60 m (Long Range model)	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	500 mm (2 beams) 800 mm (3 beams) 900 mm or 1200 (4 beams)			660 mm 960 mm 1260 mm	
ELECTRICAL DATA					
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				
Response time	11 ... 24 ms depending on model A				20 ... 24 ms depending on model A
Cables length (for power supply)	70 m max.				
MECHANICAL AND ENVIRONMENTAL DATA					
Operating temperature	0 ... +55 °C				
Humidity	15 ... 95 % (no condensation)				
Mechanical protection	IP 65 (EN 60529)				
Housing Material	Painted aluminium, PBT				
Window material	PMMA				
FUNCTIONS					
	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

^A For detailed informations refer to related Product Datasheet or Manual



MODEL SELECTION AND ORDER INFORMATION

BODY PROTECTION					ARM PROTECTION PRESENCE DETECTION			
	WITHOUT MUTING		WITHOUT MUTING	WITHOUT MUTING		LONG RANGE	LONG RANGE	
	SG2 BODY BIG BASE [SG2-BX-XXX-00-E]	ORDER CODE		SG4 BODY BIG BASE [SG4-BX-XXX-00-E]	ORDER CODE		SG4 LONG RANGE BASE [SG4-40-XXX-00-E]	ORDER CODE
WITHOUT MUTING	SG2-B2-050-00-E	957851240	WITHOUT MUTING	SG4-B2-050-00-E	957851280	LONG RANGE	SG4-40-060-00-E	957851570
	SG2-B3-080-00-E	957851250		SG4-B3-080-00-E	957851290		SG4-40-090-00-E	957851580
	SG2-B4-090-00-E	957851260		SG4-B4-090-00-E	957851300		SG4-40-120-00-E	957851590
	SG2-B4-120-00-E	957851270		SG4-B4-120-00-E	957851310		---	---
WITH INTEGRATED MUTING	SG2 BODY BIG MUTING [SG2-BXXX-XXX-00-W-C]	ORDER CODE	WITH INTEGRATED MUTING	SG4 BODY BIG MUTING [SG4-BXXX-XXX-00-W-C]	ORDER CODE	WITH INTEGRATED MUTING	---	---
	SG2-B2-050-00-W-C	957851320		SG4-BSR2-050-00-W-C	957851400		---	---
	SG2-B3-080-00-W-C	957851330		SG4-BSR3-080-00-W-C	957851410		---	---
	SG2-B4-090-00-W-C	957851340		SG4-BSR4-090-00-W-C	957851420		---	---
	SG2-B4-120-00-W-C	957851350		SG4-BSR4-120-00-W-C	957851430		---	---
	---	---		SG4-BLR2-050-00-W-C	957851360		---	---
	---	---		SG4-BLR3-080-00-W-C	957851370		---	---
	---	---		SG4-BLR4-090-00-W-C	957851380		---	---
---	---	SG4-BLR4-120-00-W-C	957851390	---	---			

CABLES

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