

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 | | | WITH INTEGRATED MUTING | | LONG RANGE |
| | SG2 BODY BIG BASE [SG2-BX-XXX-00-E] | ORDER CODE | | SG4 BODY BIG BASE [SG4-BX-XXX-00-E] | ORDER CODE | |
| WITHOUT MUTING | SG2-B2-050-00-E | 957851240 | SG4-B2-050-00-E | 957851280 | 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 | SG4 BODY BIG MUTING [SG4-BXXX-XXX-00-W-C] | ORDER CODE | | |
| | 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