



# SG-BWS

## 957051000

**SG-BWS-T4**  
SG BODY COMPACT BASE/MUTING

## OVERVIEW

- 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)

## TECHNICAL FEATURES

### Detection properties

|                          |                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------|
| Nominal sensing distance | According to the sensors used: S5*ST* up to 8m; SL5*ST and S300*ST4 up to 40m; S300*ST2 up to 50m |
| Resolution               |                                                                                                   |
| controlled height        | n/a                                                                                               |
| Sensitivity adjustment   | Dip-switch                                                                                        |

|                          |     |
|--------------------------|-----|
| Effective Aperture Angle | n/a |
|--------------------------|-----|

Application

|                                  |                                |
|----------------------------------|--------------------------------|
| Function Principle               | Control unit                   |
| Available functions              | Manual/Automatic Restart, EDM  |
| Description                      | DIN-rail mount case            |
| Max. number of sensors connected | 4 x S5*ST/SL5*ST/S300*ST pairs |
| Max. number of muting sensors    | 0                              |
| Functions                        | 4 safety light beam inputs     |

Safety parameters

|       |                                  |
|-------|----------------------------------|
| Type  | Type 4 safety control unit (A/M) |
| SIL   | 3                                |
| SILCL | 3                                |
| PL    | e                                |
| MTTFd | 201 years                        |
| Dcavg | 99,00%                           |
| SFF   | 99,74%                           |

Outputs

|               |                                          |
|---------------|------------------------------------------|
| Output type   | 2 x PNP-NO (OSSD safety output) with EDM |
| Response time | 29 ms                                    |



Electrical data

|                                    |                          |
|------------------------------------|--------------------------|
| Operating Voltage                  | 24 Vdc $\pm$ 15%         |
| Power consumption                  | $\leq$ 3,8W              |
| Load current                       | $\leq$ 500mA each output |
| Emission                           | n/a                      |
| Interference to external light     | n/a                      |
| Power Consumption - Receiver       | n/a                      |
| Power Consumption - Emitter        | n/a                      |
| Cabel Length (Power Supply/Output) | $\leq$ 50m               |
| Cable Length (sensors)             | $\leq$ 50m               |

Mechanical data

|                     |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------|
| Dimensions          | 23x99x119                                                                           |
| Material            | Plastic - PA66                                                                      |
| Connections         | Terminal block                                                                      |
| Storage temperature | -25...+ 70°C                                                                        |
| Vibrations          | Width 0.35 mm, frequency 10 ... 55Hz; 20 sweep per axis, 1octave/min (EN 60068-2-6) |
| Shocks              | 16 ms (10 G) 1,000 shocks per axis (EN 60068-2-29)                                  |

Test/Approvals

|           |         |
|-----------|---------|
| Approvals | CE, TÜV |
|-----------|---------|

|                   |                                   |
|-------------------|-----------------------------------|
| EMC compatibility | According to 2014/30/EU Directive |
|-------------------|-----------------------------------|

#### Generical Data

|            |              |
|------------|--------------|
| Dimensions | 23x99x119 mm |
|------------|--------------|

|                       |           |
|-----------------------|-----------|
| Operating Temperature | 0...+55°C |
|-----------------------|-----------|

|                       |      |
|-----------------------|------|
| Mechanical Protection | IP20 |
|-----------------------|------|

#### UNASSIGNED

|                |          |
|----------------|----------|
| Disegno 2D PDF | 5,69E-09 |
|----------------|----------|

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