



# SG BODY BIG BASE / MUTING

957851300

SG4-B4-090-OO-E

ROBUST TYPE 4 SAFETY LIGHT GRID FOR BODY AND ARM  
DETECTION

## OVERVIEW

- 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

## TECHNICAL FEATURES

### Detection properties

Nominal sensing distance 6 ... 60 m

Resolution 300mm

controlled height 900 mm

number of rays 4

Sensitivity adjustment	n/a
Effective Aperture Angle	$\leq \pm 2,5^\circ$

#### Application

Function Principle	Emitter + Receiver
Available functions	Manual/Automatic Restart, EDM
Description	Big for harsh environment
Functions	Body protection 4 beams

#### Safety parameters

Type	Type 4 safety light curtain (A/M)
SIL	3
SILCL	3
PL	e
MTTFd	353 years
Dcavg	96,40%
SFF	97,90%

#### Outputs

Output type	2 x PNP-NO (OSSD safety output) with EDM
Response time	14 ms

## Electrical data

Operating Voltage	24 Vdc $\pm$ 20%
Load current	$\leq$ 500mA each output
Emission	Infrared LED (950 nm wavelength)
Interference to external light	According to IEC 61496-2
Power Consumption - Receiver	$\leq$ 4W (no load)
Power Consumption - Emitter	$\leq$ 2,5W
Capacitive Load	$\geq$ 2,2 $\mu$ F
Cabel Length (Power Supply/Output)	$\leq$ 70m

## Mechanical data

Dimensions	52x60x1006
Material	Painted aluminum / PMMA / PBT Valox 508
Connections	M12-5 poles pig-tail (emitter) M12-8 poles pig-tail (receiver)
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, cULus, TÜV
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EMC compatibility	According to 2014/30/EU Directive
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#### Generical Data

Dimensions	52x56,9x1006,35 mm
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Operating Temperature	0...+55°C
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Humidity	15 ... 95 % (no condensation)
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Mechanical Protection	IP65
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#### UNASSIGNED

Disegno 2D PDF	1,10E-08
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