



SG BODY BIG BASE / MUTING

957851280

SG4-B2-050-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
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Resolution	500mm
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controlled height	500 mm
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number of rays	2
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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 2 beams

Safety parameters

Type	Type 4 safety light curtain (A/M)
SIL	3
SILCL	3
PL	e
PFHd	1,10E-08
Dcavg	96,40%
MTTFd	353 years
SFF	97,90%

Outputs

Output type	2 x PNP-NO (OSSD safety output) with EDM
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Response time	12 ms
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Electrical data

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

Mechanical data

Dimensions	52x60x606
Connections	M12-5 poles pig-tail (emitter) M12-8 poles pig-tail (receiver)
Storage temperature	-25...+ 70°C
Material	Painted aluminum / PMMA / PBT Valox 508
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

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Approvals	CE, cULus, TÜV
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EMC compatibility	According to 2014/30/EU Directive
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Generical Data

Dimensions	52x56,9x606,35 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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