



SG BODY BIG BASE / MUTING

957851330

SG2-B3-080-OO-W-C

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	0,5 ... 60 m
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Resolution	400mm
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controlled height	800 mm
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number of rays	3
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Sensitivity adjustment	Dip-switch
Effective Aperture Angle	$\leq \pm 5^\circ$

Application	
Function Principle	Emitter + Receiver
Available functions	Manual/Automatic Restart, EDM, L/T Muting, Override, Muting Enable, Muting Filter, Anti-Interference Coding
Description	Big for harsh environment
Functions	Body protection 3 beams muting

Safety parameters	
Type	Type 2 safety light curtain (A/M)
SIL	3
SILCL	3
PL	c
PFHd	3,15E-08
Dcavg	92,10%
MTTFd	288 years
SFF	95,20%

Outputs	
Output type	2 x PNP-NO (OSSD safety output) with EDM

Response time	13 ms
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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 μ F
Cabel Length (Power Supply/Output)	$\leq$ 70m

Mechanical data

Dimensions	52x60x906
Connections	M12-5 poles + M12-5 poles (emitter) M12-12 poles + M12-5 poles (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

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

Dimensions	52x56,9x909,35 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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