



SG BODY REFLECTOR BASE / MUTING

957951070

SG4-RB3L-080-OO-W

RETROREFLECTIVE TYPE 4 SAFETY LIGHT GRID FOR
BODY DETECTION

OVERVIEW

- One active and one passive unit to reduce wiring and installation costs
- Robust housing for harsh environments
- Easy installation and alignment
- Reflective muting arms included in L and T muting version
- All advanced features associated to muting function
- 2, 3, 4 beams for body protection
- Controlled heights 500, 800, 900 and 1200 mm
- Up to 8 m operating distance
- Simple configuration through DIP switches
- Integrated muting lamp (muting models)
- Anti-interference coding
- External muting enable signal
- Edged or triggered muting dependent override

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	0,5 ... 3 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	$\leq \pm 2,5^\circ$

Application	
Function Principle	Transceiver (Active side)
Available functions	Manual/Automatic Restart, EDM, L Muting, Override, Muting Enable, Muting Filter
Description	Big RRX active unit L arms
Functions	Body protection 3 beams muting

Safety parameters	
Type	Type 4 safety light curtain (A/M)
SIL	3
SILCL	3
PL	e
PFHd	8,57E-09
MTTFd	439 years
SFF	97,50%

Outputs	
Output type	2 x PNP-NO (OSSD safety output) with EDM
Response time	11,5 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	$\leq$ 6,5W (no load)
Power Consumption - Emitter	n/a
Cabel Length (Power Supply/Output)	$\leq$ 70m

Mechanical data

Dimensions	52x57x909
Connections	M12-12 poles + M12-5 poles (Active Unit)
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

EMC compatibility	According to 2014/30/EU Directive
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Generical Data

Dimensions	52x56,9x909,35 mm
Operating Temperature	0...+55°C
Humidity	15 ... 95 % (no condensation)
Mechanical Protection	IP65

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