



SG2 Muting

957801710

SG2-30-045-OO-W
TYPE 2 SAFETY LIGHT CURTAIN FOR HAND DETECTION
WITH MUTING

OVERVIEW

- No dead zone
- Pigtail cable with M12 connector
- Up to 20m operating range and 1800m protected height
- Compact dimensions (35 x 41 mm section)
- Anti-interference coding
- Integrated Muting function
- Configurable with Pushbuttons

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	0,2 ... 20 m
Resolution	30mm
controlled height	450 mm
number of rays	24
Sensitivity adjustment	Teach-in
Effective Aperture Angle	$\leq \pm 5^\circ$

Application	
Function Principle	Emitter + Receiver
Available functions	Manual/Automatic Restart, EDM, Range Reduction (on TX), Muting, Override
Description	Compact no-dead-zone
Functions	Hand protection res. 30 mm muting
Safety parameters	
Type	Type 2 safety light curtain (A/M)
SIL	1
SILCL	1
PL	c
MTTFd	273 years
Dcavg	97,50%
SFF	98,40%
Outputs	
Output type	2 x PNP-NO (OSSD safety output) with EDM
Response time	13,9 ms
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	≤ 5W (no load)
Power Consumption - Emitter	≤ 3W
Capacitive Load	≥ 2,2μF
Cabel Length (Power Supply/Output)	≤ 50m

Mechanical data

Dimensions	35x41x456
Material	Painted aluminum / PMMA / PBT Valox 508 / PC LEXAN
Connections	M12-5 poles pig-tail (emitter) M12-12 poles + M12-5poles pig-tails (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
EMC compatibility	According to 2014/30/EU Directive

Accessories

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Supplied Accessories	Standard "L" Mounting Brackets: 4 pcs kit
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Generical Data

Dimensions	35x40,75x456,3 mm
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Operating Temperature	0...+50°C
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Humidity	15 ... 95 % (no condensation)
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Mechanical Protection	IP65
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UNASSIGNED

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