



# SG2 Base

957801120

SG2-50-030-OO-X

TYPE 2 SAFETY LIGHT CURTAIN WITH BASIC  
FUNCTIONALITY

## OVERVIEW

- High reliability
- Easy installation and alignment
- Cost effective Finger, hand, arm detection with basic functions
- 90 mm version for presence detection
- Up to 19 m operating distance
- Compact dimensions (32.3 x 36.9 mm section)
- Anti-interference coding
- IP65 Protection; IP69K with optional tube
- Unshielded cables
- Rotating and anti-vibration brackets

## TECHNICAL FEATURES

### Detection properties

Nominal sensing distance	0,2 ... 19 m
Resolution	50mm
controlled height	300 mm
number of rays	9
Sensitivity adjustment	n/a

Effective Aperture Angle	$\leq \pm 5^\circ$
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#### Application

Function Principle	Emitter + Receiver
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Available functions	Automatic Restart
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Description	Compact standard
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Functions	Arm protection res. 50 mm
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#### Safety parameters

Type	Type 2 safety light curtain (A)
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SIL	1
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SILCL	1
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PL	c
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PFHd	1,04E-08
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Dcavg	97,50%
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MTTFd	273 years
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SFF	98,40%
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#### Outputs

Output type	2 x PNP-NO (OSSD safety output)
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Response time	9,4 ms
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## Electrical data

Operating Voltage	24 Vdc $\pm$ 20%
Load current	$\leq$ 500mA each output
Emission	Infrared LED (850 nm wavelength)
Interference to external light	According to IEC 61496-2
Power Consumption - Receiver	$\leq$ 3W (no load)
Power Consumption - Emitter	$\leq$ 2W
Capacitive Load	$\geq$ 2,2 $\mu$ F
Cabel Length (Power Supply/Output)	$\leq$ 50m

## Mechanical data

Dimensions	33x37x383
Connections	M12-4 poles (emitter) M12-5 poles (receiver)
Storage temperature	-25...+ 70°C
Material	Painted aluminum / PMMA / PC MAKROLON
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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#### Accessories

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

Dimensions	32,3x36,9x383,2 mm
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Operating Temperature	-10...+55°C
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Humidity	15 ... 95 % (no condensation)
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Mechanical Protection	IP65
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