



# SG4 Base

957901100

SG4-14-165-OO-E

TYPE 4 SAFETY LIGHT CURTAIN WITH BASIC  
FUNCTIONALITY

## OVERVIEW

- High reliability
- Easy installation and alignment
- Cost effective Finger, hand detection with basic functions
- 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 ... 6 m
Resolution	14mm
controlled height	1650 mm
number of rays	176
Sensitivity adjustment	n/a

Effective Aperture Angle	$\leq \pm 2,5^\circ$
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#### Application

Function Principle	Emitter + Receiver
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Available functions	Manual/Automatic Restart, EDM
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Description	Compact standard
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Functions	Finger protection res. 14 mm
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#### Safety parameters

Type	Type 4 safety light curtain (A/M)
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SIL	3
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SILCL	3
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PL	e
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PFHd	2,64E-09
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Dcavg	98,80%
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MTTFd	444 years
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SFF	99,30%
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#### Outputs

Output type	2 x PNP-NO (OSSD safety output) with EDM
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Response time	46,2 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	$\leq$ 3,5W (no load)
Power Consumption - Emitter	$\leq$ 2,5W
Cabel Length (Power Supply/Output)	$\leq$ 50m

## Mechanical data

Dimensions	33x37x1733
Connections	M12-5 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

EMC compatibility	According to 2014/30/EU Directive
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## Accessories

Supplied Accessories	Standard "L" Mounting Brackets: 6 pcs kit
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## Generical Data

Dimensions	32,3x36,9x1733,2 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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**date of  
printing**  
01/05/2026  
18:02:19