



# SG4 Base

957901460

SG4-14-015-OO-X

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        | 150 mm      |
| number of rays           | 16          |
| Sensitivity adjustment   | n/a         |

|                          |        |
|--------------------------|--------|
| Effective Aperture Angle | ≤±2,5° |
|--------------------------|--------|

Application

|                     |                              |
|---------------------|------------------------------|
| Function Principle  | Emitter + Receiver           |
| Available functions | Automatic Restart            |
| Description         | Compact standard             |
| Functions           | Finger protection res. 14 mm |

Safety parameters

|       |                                 |
|-------|---------------------------------|
| Type  | Type 4 safety light curtain (A) |
| SIL   | 3                               |
| SILCL | 3                               |
| PL    | c                               |
| MTTFd | 444 years                       |
| Dcavg | 98,80%                          |
| SFF   | 99,30%                          |

Outputs

|               |                                 |
|---------------|---------------------------------|
| Output type   | 2 x PNP-NO (OSSD safety output) |
| Response time | 9 ms                            |

Electrical data

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|                                    |                                  |
|------------------------------------|----------------------------------|
| Operating Voltage                  | 24 Vdc ± 20%                     |
| Load current                       | ≤ 500mA each output              |
| Emission                           | Infrared LED (850 nm wavelength) |
| Interference to external light     | According to IEC 61496-2         |
| Power Consumption - Receiver       | ≤ 3,5W (no load)                 |
| Power Consumption - Emitter        | ≤ 2,5W                           |
| Cabel Length (Power Supply/Output) | ≤ 50m                            |

**Mechanical data**

|                     |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------|
| Dimensions          | 33x37x233                                                                           |
| Material            | Painted aluminum / PMMA / PC MAKROLON                                               |
| Connections         | M12-4 poles (emitter) M12-5 poles (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**

|                   |                                   |
|-------------------|-----------------------------------|
| EMC compatibility | According to 2014/30/EU Directive |
|-------------------|-----------------------------------|

**Accessories**

|                      |                                           |
|----------------------|-------------------------------------------|
| Supplied Accessories | Standard "L" Mounting Brackets: 4 pcs kit |
|----------------------|-------------------------------------------|

## Generical Data

|            |                    |
|------------|--------------------|
| Dimensions | 32,3x36,9x233,3 mm |
|------------|--------------------|

|                       |             |
|-----------------------|-------------|
| Operating Temperature | -10...+55°C |
|-----------------------|-------------|

|          |                               |
|----------|-------------------------------|
| Humidity | 15 ... 95 % (no condensation) |
|----------|-------------------------------|

|                       |      |
|-----------------------|------|
| Mechanical Protection | IP65 |
|-----------------------|------|

## UNASSIGNED

|                |          |
|----------------|----------|
| Disegno 2D PDF | 2,64E-09 |
|----------------|----------|

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