



# SG4 Base

957901180

SG4-30-105-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 ... 19 m |
|--------------------------|--------------|

|            |      |
|------------|------|
| Resolution | 30mm |
|------------|------|

|                   |         |
|-------------------|---------|
| controlled height | 1050 mm |
|-------------------|---------|

|                |    |
|----------------|----|
| number of rays | 56 |
|----------------|----|

|                        |     |
|------------------------|-----|
| Sensitivity adjustment | n/a |
|------------------------|-----|

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

Application

|                     |                               |
|---------------------|-------------------------------|
| Function Principle  | Emitter + Receiver            |
| Available functions | Manual/Automatic Restart, EDM |
| Description         | Compact standard              |
| Functions           | Hand protection res. 30 mm    |

Safety parameters

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

Outputs

|               |                                          |
|---------------|------------------------------------------|
| Output type   | 2 x PNP-NO (OSSD safety output) with EDM |
| Response time | 31,3 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          | 33x37x1133                                                                          |
| Material            | Painted aluminum / PMMA / PC MAKROLON                                               |
| Connections         | M12-5 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 | 32,3x36,9x1133,2 mm |
|------------|---------------------|

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

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

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

## UNASSIGNED

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

## Datasensing S.r.l.

Strada S.Caterina, 235  
41122 Modena (MO)  
Tel. 059 420411  
Fax 059 253973  
E-mail  
[info@datasensing.com](mailto:info@datasensing.com)

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