



# SG4-N

## 957902550

**SG4-30-165-OO-N**

TYPE 4 SAFETY LIGHT CURTAIN 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 for common configuration

## TECHNICAL FEATURES

### Detection properties

|                          |              |
|--------------------------|--------------|
| Nominal sensing distance | 0,2 ... 20 m |
|--------------------------|--------------|

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

|                   |         |
|-------------------|---------|
| controlled height | 1650 mm |
|-------------------|---------|

|                |    |
|----------------|----|
| number of rays | 88 |
|----------------|----|

|                        |          |
|------------------------|----------|
| Sensitivity adjustment | Teach-in |
|------------------------|----------|

|                          |                      |
|--------------------------|----------------------|
| Effective Aperture Angle | $\leq \pm 2,5^\circ$ |
|--------------------------|----------------------|

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Application

|                     |                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------|
| Function Principle  | Emitter + Receiver                                                                           |
| Available functions | Manual/Automatic Restart, EDM, L/T Muting, Partial Muting, Override, Range Reduction (on TX) |
| Description         | Compact (connector = old SE)                                                                 |
| Functions           | Hand prot. res. 30 mm muting                                                                 |

Safety parameters

|       |                                   |
|-------|-----------------------------------|
| Type  | Type 4 safety light curtain (A/M) |
| SIL   | 3                                 |
| SILCL | 3                                 |
| PL    | e                                 |
| MTTFd | 131 years                         |
| Dcavg | 98,80%                            |

Outputs

|               |                                          |
|---------------|------------------------------------------|
| Output type   | 2 x PNP-NO (OSSD safety output) with EDM |
| Response time | 31,2 ms                                  |

Electrical data

|                   |                          |
|-------------------|--------------------------|
| Operating Voltage | 24 Vdc $\pm$ 20%         |
| Load current      | $\leq$ 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                             |
| Cabel Length (Power Supply/Output) | ≤ 50m                            |

**Mechanical data**

|                     |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------|
| Dimensions          | 35x41x1656                                                                          |
| Material            | Painted aluminum / PMMA / PBT Valox 508 / PC LEXAN                                  |
| Connections         | M12-5 poles pig-tail (emitter) M12-8 poles pig-tail (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: 6 pcs kit |
|----------------------|-------------------------------------------|

**Generical Data**

|            |                    |
|------------|--------------------|
| Dimensions | 35x40,75x1656,3 mm |
|------------|--------------------|

|                       |           |
|-----------------------|-----------|
| Operating Temperature | 0...+50°C |
|-----------------------|-----------|

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

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

UNASSIGNED

|                |          |
|----------------|----------|
| Disegno 2D PDF | 8,40E-09 |
|----------------|----------|

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**date of  
printing**  
10/08/2026  
06:44:27