



# SG4 Extended

957901260

SG4-14-060-OO-P

TYPE 4 SAFETY LIGHT CURTAIN WITH ADVANCED  
FUNCTIONALITY

## OVERVIEW

- No dead zone
- Pigtail cable with M12 connector
- Cascade connection of up to 3 units
- Up to 20m operating range and 1800m protected height
- Compact dimensions (35 x 41 mm section)
- Anti-interference coding
- Integrated Muting function
- Floating Blanking, Fixed Blanking and Reduced Resolution
- Configurable with:
  - Pushbuttons for common configuration
  - Graphic User Interface for complete parametrisation
  - Ethernet Interface for programming, monitoring and error logging

## TECHNICAL FEATURES

### Detection properties

|                          |             |
|--------------------------|-------------|
| Nominal sensing distance | 0,2 ... 7 m |
|--------------------------|-------------|

|            |      |
|------------|------|
| Resolution | 14mm |
|------------|------|

|                   |        |
|-------------------|--------|
| controlled height | 600 mm |
|-------------------|--------|

|                |    |
|----------------|----|
| number of rays | 64 |
|----------------|----|

|                          |                      |
|--------------------------|----------------------|
| Sensitivity adjustment   | Teach-in/GUI         |
| Effective Aperture Angle | $\leq \pm 2,5^\circ$ |

### Application

|                     |                                      |
|---------------------|--------------------------------------|
| Function Principle  | Emitter + Receiver                   |
| Available functions | Programmable Muting & Blanking       |
| Description         | Compact no-dead-zone programmable    |
| Functions           | Finger prot. res. 14 mm programmable |

### 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                  | 17 ms                                    |
| Response Time (Master + Slave) | Tcascade [ms] = Tmaster + Tslave1 + 7,5  |
|                                |                                          |

|                                  |                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------|
| Response Time (Master + 2 Slave) | $T_{\text{cascade}} [\text{ms}] = T_{\text{master}} + T_{\text{slave1}} + T_{\text{slave2}} + 7,5$ |
|----------------------------------|----------------------------------------------------------------------------------------------------|

Electrical data

|                                                |                                  |
|------------------------------------------------|----------------------------------|
| Operating Voltage                              | 24 Vdc ± 20%                     |
| Load current                                   | ≤ 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                            |
| Cable Length for Master Slave Interconnections | ≤ 1m (Master-Slave Cable)        |

Mechanical data

|                     |                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------|
| Dimensions          | 35x41x606                                                                                    |
| Material            | Painted aluminum / PMMA / PBT Valox 508 / PC LEXAN                                           |
| Connections         | M12-5 poles pig-tail (emitter) M12-12 poles + M12-5poles / M12-12 poles pig-tails (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

|                   |                 |
|-------------------|-----------------|
| Network Interface | Ethernet TCP/IP |
|-------------------|-----------------|

|            |                   |
|------------|-------------------|
| Dimensions | 35x40,75x606,3 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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