



SG4 Base

957901190

SG4-30-120-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 | 1200 mm |
| number of rays | 64 |
| Sensitivity adjustment | n/a |

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

Application

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| 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 | Hand protection res. 30 mm |
|-----------|----------------------------|

Safety parameters

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|------|-----------------------------------|
| Type | Type 4 safety light curtain (A/M) |
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| | |
|-----|---|
| SIL | 3 |
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| | |
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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

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| Output type | 2 x PNP-NO (OSSD safety output) with EDM |
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|---------------|-------|
| Response time | 35 ms |
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Electrical data

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|------------------------------------|----------------------------------|
| 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 | 33x37x1283 |
| 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 |
|-------------------|-----------------------------------|

Accessories

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

| | |
|------------|---------------------|
| Dimensions | 32,3x36,9x1283,2 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**
11/04/2026
15:46:01