



SAS4-S044P3TS2W01

SLG

AUTOMATION LIGHT GRIDS

SICK
Sensor Intelligence.



Ordering information

| Type | part no. |
|-------------------|----------|
| SAS4-S044P3TS2W01 | 1218216 |

Other models and accessories → www.sick.com/SLG

Illustration may differ



Detailed technical data

Features

| | |
|--|--|
| Sensor principle | Sender/receiver |
| Minimum detectable object (MDO) | Cross beam, 25 mm ¹⁾ |
| Beam separation | 40 mm |
| Optical light exit | Slim |
| Number of beams | 12 |
| Detection height | 440 mm |
| Parameterization | None |
| Cross beam/parallel beam | Cross beam active |
| Output 1 | Output 1 active, if light beam interrupted |
| Muting function | Muting function deactivated |
| Automatic teach | Automatic teach inactive |
| Alignment aid | Without alignment aid |

¹⁾ 25 mm MDO limited detection area.

Mechanics/electronics

| | |
|--|----------------|
| Light source | Infrared light |
| Wave length | 950 nm |
| Supply voltage V_s | DC24 V, ± 20 % |
| Power consumption receiver | ≤ 70 mA |
| Output current I_{max.} | 100 mA |
| Output load, capacitive | 100 nF |
| Output load, Inductive | 1 H |
| Initialization time | 1 s |
| Switching output | PNP |

| | |
|-------------------------------|--|
| Inputs | Teach-in input (receiver) Test input (sender) HIGH = 10 V ... 30 V / LOW = < 5 V |
| Dimensions (W x H x D) | 36.5 mm x 512.4 mm x 12.4 mm |
| Connection type | Cable with M12 male connector, 4-pin |
| Housing material | PMMA |
| Indication | LED |
| Synchronization | Optical |
| Enclosure rating | IP65 |
| Circuit protection | U _V connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression |
| Protection class | III |
| Weight | 60 g |
| Pulse frequency | 500 kHz |
| Aluminum stabilizer | With stabilizer |

Performance

| | |
|------------------------|-----------------------------------|
| Maximum range | 4 m ¹⁾ |
| Minimum range | Cross beam: ≥ 0.3 m ²⁾ |
| Operating range | 3 m |
| Response time | Cross beam, 57 ms |

¹⁾ No reserve for environmental issue and deterioration of the diode.

²⁾ Aperture ± 10°.

Ambient data

| | |
|--------------------------------------|--|
| Shock resistance | 10 g / DIN EN 60068-2-29 / 16 ms |
| Vibration resistance | 5 g, 10 Hz ... 55 Hz (IEC 68-2-6) |
| EMC | EN 60947-5-2 |
| Ambient light immunity | Direct: 100,000 lx ¹⁾ Indirect: 150,000 lx |
| Ambient operating temperature | -25 °C ... +55 °C |
| Ambient temperature, storage | -25 °C ... +70 °C |

¹⁾ Sunlight.

Certificates

| | |
|--|---|
| EU declaration of conformity | ✓ |
| UK declaration of conformity | ✓ |
| ACMA declaration of conformity | ✓ |
| Moroccan declaration of conformity | ✓ |
| China RoHS | ✓ |
| Information according to Art. 3 of Data Act (Regulation EU 2023/2854) | ✓ |

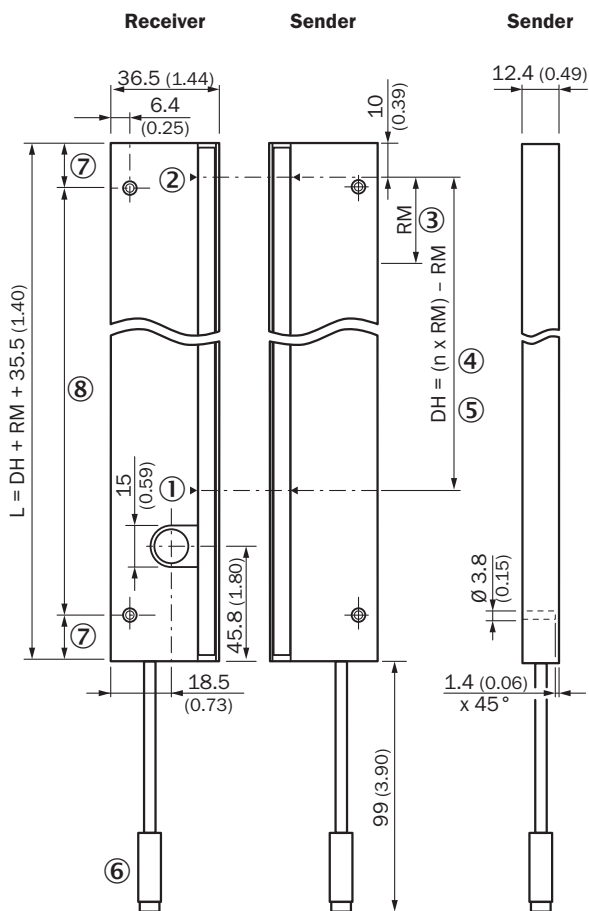
Classifications

| | |
|-------------------|----------|
| ECLASS 5.0 | 27270910 |
|-------------------|----------|

| | |
|-----------------------|----------|
| ECLASS 5.1.4 | 27270910 |
| ECLASS 6.0 | 27270910 |
| ECLASS 6.2 | 27270910 |
| ECLASS 7.0 | 27270910 |
| ECLASS 8.0 | 27270910 |
| ECLASS 8.1 | 27270910 |
| ECLASS 9.0 | 27270910 |
| ECLASS 10.0 | 27270910 |
| ECLASS 11.0 | 27270910 |
| ECLASS 12.0 | 27270910 |
| ETIM 5.0 | EC002549 |
| ETIM 6.0 | EC002549 |
| ETIM 7.0 | EC002549 |
| ETIM 8.0 | EC002549 |
| UNSPSC 16.0901 | 39121528 |

Dimensional drawing Sxx-Sxxxxxx2xxx

Slim, with stabilizer

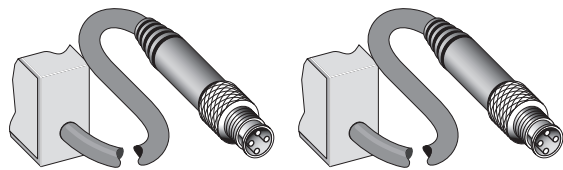


Dimensions in mm (inch)

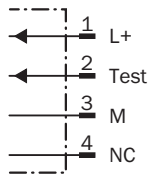
- ① First beam
- ② last beam
- ③ beam separation (RM)
- ④ number of beams (n)
- ⑤ detection height (DH)
- ⑥ Connection
- ⑦ Same distance
- ⑧ see table (hole spacing stabilizer)

| Hole spacing stabilizer | | | |
|-------------------------|-----------------|----------------------------|--------------------------------------|
| Monitoring height (MH) | Number of holes | Distance between the holes | Distance first hole to the last hole |
| 0120 | 2 | 160 | 160 |
| 0280 | 2 | 320 | 320 |
| 0440 | 2 | 320 | 320 |
| 0600 | 3 | 320 | 640 |
| 0760 | 3 | 320 | 640 |
| 0920 | 4 | 320 | 960 |
| 1080 | 4 | 320 | 960 |
| 1240 | 5 | 320 | 1280 |
| 1400 | 5 | 320 | 1280 |

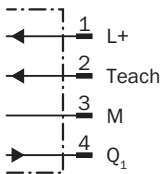
Connection type and diagram



Sender



Receiver



Specific features

Optical synchronization



The light grid communicates via the light beams. A cable is not necessary for the optical synchronization.




Slim & Flat



- ① Slim model = light emission on narrow side
- ② Flat model = light emission on broad side

Recommended accessories

Other models and accessories → www.sick.com/SLG

| | Brief description | Type | part no. |
|---|---|--------------------|----------|
| connectors and cables | | | |
|  | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 4-pin, straight, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 2 m, 4-wire, PVC • Description: Sensor/actuator cable, unshielded • Application: Zones with chemicals, Uncontaminated zones | YF2A14-020VB3XLEAX | 2096234 |
|  | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 4-pin, straight, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 0.6 m, 4-wire, PVC • Description: Sensor/actuator cable, unshielded • Application: Zones with chemicals, Uncontaminated zones | YF2A14-C60VB3XLEAX | 2145707 |
|  | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 4-pin, straight, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 1 m, 4-wire, PVC • Description: Sensor/actuator cable, unshielded • Application: Zones with chemicals, Uncontaminated zones | YF2A14-010VB3XLEAX | 2145708 |

SICK AT A GLANCE

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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

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