



## Switching automation light grids SLG, SGS

SGS4-S092P3PS2T07



**Model Name** > [SGS4-S092P3PS2T07](#)  
**Part No.** > [1211757](#)

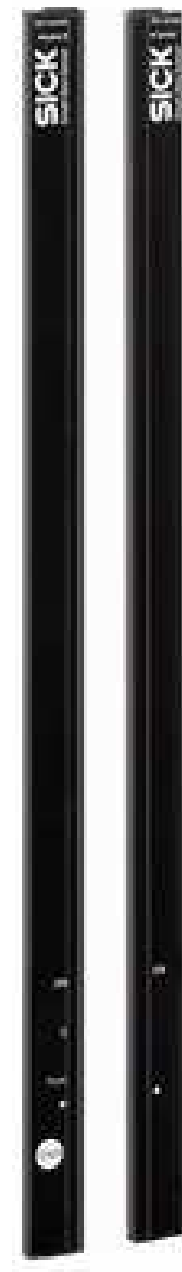


#### At a glance

- Variable monitoring lengths from 120 mm up to 1,400 mm (in 160 mm increments)
- Maximum range 10 m
- Response time 18 ms
- 25 mm or 45 mm detection resolution with 40 mm or 80 mm beam spacing possible
- Order-picking with extra-bright job LEDs on the sender and receiver sides
- IP 65 protection for various environmental conditions
- Highly immune to sunlight at 150,000 lx

#### Your benefits

- Small, slim and sleek design enables easy integration into applications
- Capacitive teach-in button and LEDs make commissioning easier for complex solutions
- Slim and flat models offer flexible mounting options
- User-defined factory preset configuration or flexible configuration with teach-in button
- Optical synchronization eliminates the need to lay cables, saving time
- Stealth detection in public places - at only 8 mm x 25 mm, it fits just about anywhere and can be imbedded inside walls, doors, conveyors, and machines, reducing damage
- Auto-teach and auto-muting enable Plug & Play. And, an alignment aid and "Click & Go" provide faster installation.



#### Features

|                                  |                   |
|----------------------------------|-------------------|
| Technology:                      | Sender/receiver   |
| Minimum detectable object (MDO): | Cross beam, 25 mm |
| Beam separation:                 | 40 mm             |
| Number of beams:                 | 24                |
| Detection height:                | 920 mm            |

|                           |                                              |
|---------------------------|----------------------------------------------|
| Optical light exit:       | Slim                                         |
| Configuration:            | Teach button with configuration software     |
| Cross beam/parallel beam: | Cross beam active                            |
| Output 1:                 | Output 1 inactive, if light beam interrupted |
| Automatic teach:          | Automatic teach active                       |
| Alignment aid:            | Without alignment aid                        |
| Muting function:          | Muting function inactive                     |

## Performance

|                |                                            |
|----------------|--------------------------------------------|
| Maximum range: | 4 m <sup>1)</sup>                          |
| Minimum range: | Multiple scan: $\geq 0.3$ mm <sup>2)</sup> |
| Working range: | 3 m                                        |
| Response time: | Multiple scan 57 ms                        |

<sup>1)</sup> No reserve for environmental issue and deterioration of the diode <sup>2)</sup> Aperture  $\pm 10^\circ$

## Interfaces

|                        |                                      |
|------------------------|--------------------------------------|
| Output type:           | 1 x PNP                              |
| Electrical connection: | Short cable with connector M8, 4-pin |
| Inputs:                | Teach input                          |

## Mechanics/electronics

|                                            |                                                                                                           |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Wave length:                               | IR 950 nm                                                                                                 |
| Supply voltage Vs:                         | DC 24 V, $\pm 20$ %                                                                                       |
| Power consumption sender <sup>1)</sup> :   | 184 mA                                                                                                    |
| Power consumption receiver <sup>2)</sup> : | 70 mA                                                                                                     |
| Output current I <sub>max</sub> :          | 100 mA                                                                                                    |
| Output load capacitive:                    | 100 nF                                                                                                    |
| Output load inductive:                     | 1 H                                                                                                       |
| Initialization time:                       | 1 s                                                                                                       |
| Dimensions (W x H x D):                    | 25 mm x 992.4 mm x 8 mm                                                                                   |
| Housing material:                          | PMMA                                                                                                      |
| Indication:                                | LED                                                                                                       |
| Circuit protection:                        | Output Q short-circuit protected<br>Interference suppression<br>VS connections reverse-polarity protected |
| Weight:                                    | 120 g                                                                                                     |
| Switching frequency:                       | 500 kHz                                                                                                   |
| Aluminum stabilizer:                       | With stabilizer                                                                                           |
| Synchronization:                           | Optical                                                                                                   |

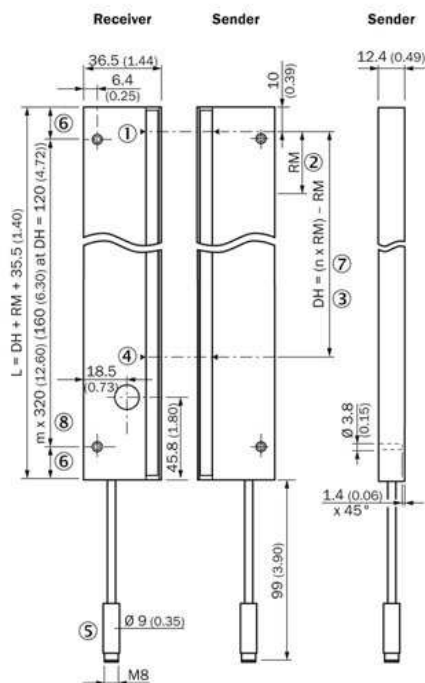
<sup>1)</sup> <sup>2)</sup> Without load

## Ambient data

|                         |                                                                      |
|-------------------------|----------------------------------------------------------------------|
| Protection class:       | III                                                                  |
| EMC:                    | EN 60947-5-2                                                         |
| Ambient temperature:    | Operation: -25 ... +55 °C<br>Storage: -25 ... +70 °C                 |
| Vibration resistance:   | 5 g, 10 Hz ... 55 Hz (IEC 68-2-6)                                    |
| Shock load:             | 10 g/DIN EN 60068-2-29/16 ms                                         |
| Ambient light immunity: | Direct: $\geq 100,000$ lx, Indirect: $\geq 150,000$ lx <sup>1)</sup> |

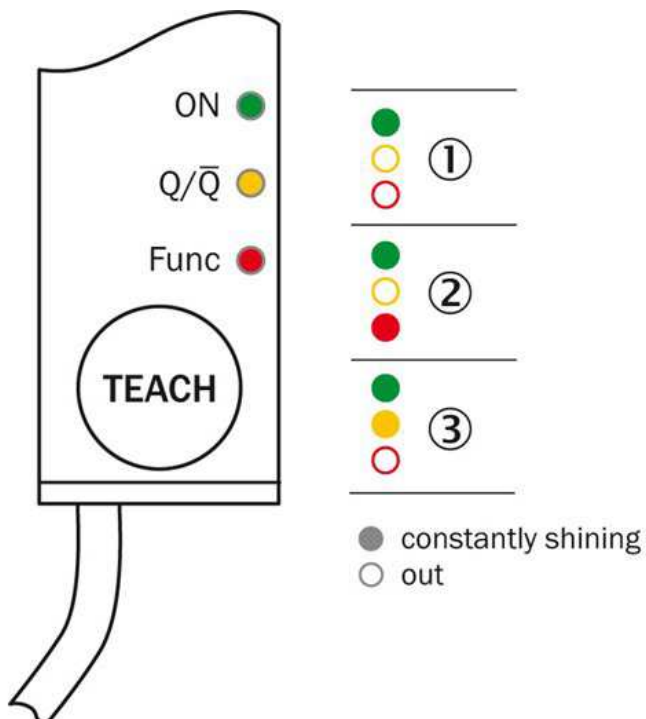
## Dimensional drawing

Slim, with stabilizer



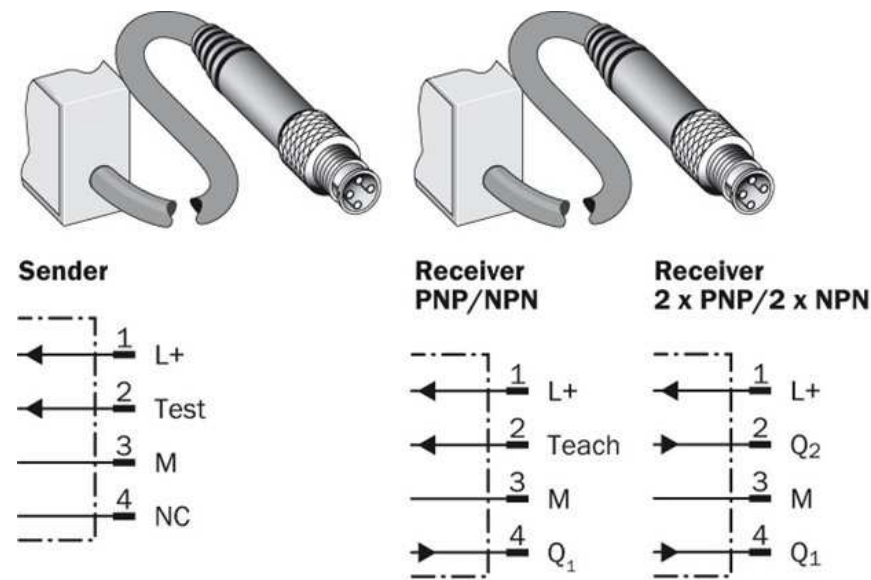
- |1| Last beam
- |2| Beam separation RM
- |3| DH - Detection height (n x 40 mm) - RM
- |4| First beam
- |5| Connection
- |6| Same distance
- |7| n = beam
- |8| m = mounting hole

## Receiver, LED indication



- |1| Supply voltage
- |2| Active, if teach-in button is pressed
- |3| No object in the light path

Connection type and diagram



Special functions

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**Australia**

Phone +61 3 9457 0600  
1800 33 48 02 – tollfree  
E-Mail sales@sick.com.au

**Belgium/Luxembourg**

Phone +32 (0)2 466 55 66  
E-Mail info@sick.be

**Brasil**

Phone +55 11 3215-4900  
E-Mail marketing@sick.com.br

**Canada**

Phone +1 905 771 14 44  
E-Mail information@sick.com

**Česká republika**

Phone +420 2 57 91 18 50  
E-Mail sick@sick.cz

**China**

Phone +86 4000 121 000  
E-Mail info.china@sick.net.cn  
Phone +852-2153 6300  
E-Mail ghk@sick.com.hk

**Danmark**

Phone +45 45 82 64 00  
E-Mail sick@sick.dk

**Deutschland**

Phone +49 211 5301-301  
E-Mail info@sick.de

**España**

Phone +34 93 480 31 00  
E-Mail info@sick.es

**France**

Phone +33 1 64 62 35 00  
E-Mail info@sick.fr

**Great Britain**

Phone +44 (0)1727 831121  
E-Mail info@sick.co.uk

**India**

Phone +91-22-4033 8333  
E-Mail info@sick-india.com

**Israel**

Phone +972-4-6881000  
E-Mail info@sick-sensors.com

**Italia**

Phone +39 02 27 43 41  
E-Mail info@sick.it

**Japan**

Phone +81 (0)3 5309 2112  
E-Mail support@sick.jp

**Magyarország**

Phone +36 1 371 2680  
E-Mail office@sick.hu

**Nederland**

Phone +31 (0)30 229 25 44  
E-Mail info@sick.nl

**Norge**

Phone +47 67 81 50 00  
E-Mail sick@sick.no

**Österreich**

Phone +43 (0)22 36 62 28 8-0  
E-Mail office@sick.at

**Polska**

Phone +48 22 837 40 50  
E-Mail info@sick.pl

**România**

Phone +40 356 171 120  
E-Mail office@sick.ro

**Russia**

Phone +7-495-775-05-30  
E-Mail info@sick.ru

**Schweiz**

Phone +41 41 619 29 39  
E-Mail contact@sick.ch

**Singapore**

Phone +65 6744 3732  
E-Mail sales.gsg@sick.com

**Slovenija**

Phone +386 (0)1-47 69 990  
E-Mail office@sick.si

**South Africa**

Phone +27 11 472 3733  
E-Mail info@sickautomation.co.za

**South Korea**

Phone +82 2 786 6321/4  
E-Mail info@sickkorea.net

**Suomi**

Phone +358-9-25 15 800  
E-Mail sick@sick.fi

**Sverige**

Phone +46 10 110 10 00  
E-Mail info@sick.se

**Taiwan**

Phone +886 2 2375-6288  
E-Mail sales@sick.com.tw

**Türkiye**

Phone +90 (216) 528 50 00  
E-Mail info@sick.com.tr

**United Arab Emirates**

Phone +971 (0) 4 88 65 878  
E-Mail info@sick.ae

**USA/México**

Phone +1(952) 941-6780  
1 (800) 325-7425 – tollfree  
E-Mail info@sickusa.com

More representatives and agencies  
at [www.sick.com](http://www.sick.com)