SAS4-S044P3PS1T00

SLG

SWITCHING AUTOMATION LIGHT GRIDS

SICK
Sensor Intelligence.

SAS4-S044P3PS1T00 | SLG

SWITCHING AUTOMATION LIGHT GRIDS

Illustration may differ

CE

Ordering information

Type	Part no.
SAS4-S044P3PS1T00	1045019

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

Detailed technical data

Features

Sensor principle	Sender/receiver
Minimum detectable object (MDO)	Parallel beam, 45 mm
Beam separation	40 mm
Optical light exit	Slim
Number of beams	12
Detection height	440 mm
Parameterization	Teach-in button
Cross beam/parallel beam	Parallel 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

Mechanics/electronics

Light source	Infrared light
Wave length	950 nm
Supply voltage V_s	DC24 V, ± 20 %
Power consumption receiver	≤ 70 mA
Ripple	< 5 V_{pp}
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)	25 mm x 512.4 mm x 8.2 mm
Connection type	Cable with M8 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	Without stabilizer

Performance

Maximum range	4 m [1]
Minimum range	Parallel beam: ≥ 0 m [2]
Operating range	3 m
Response time	Parallel beam, 19 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.

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

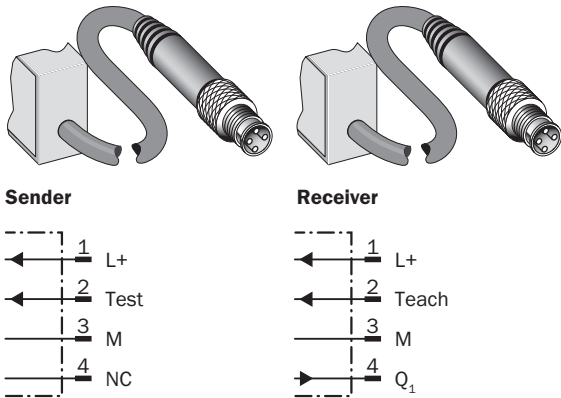## Dimensional drawing (Dimensions in mm (inch))

Sxx-Sxxxxxxx1xxx

Slim, without stabilizer
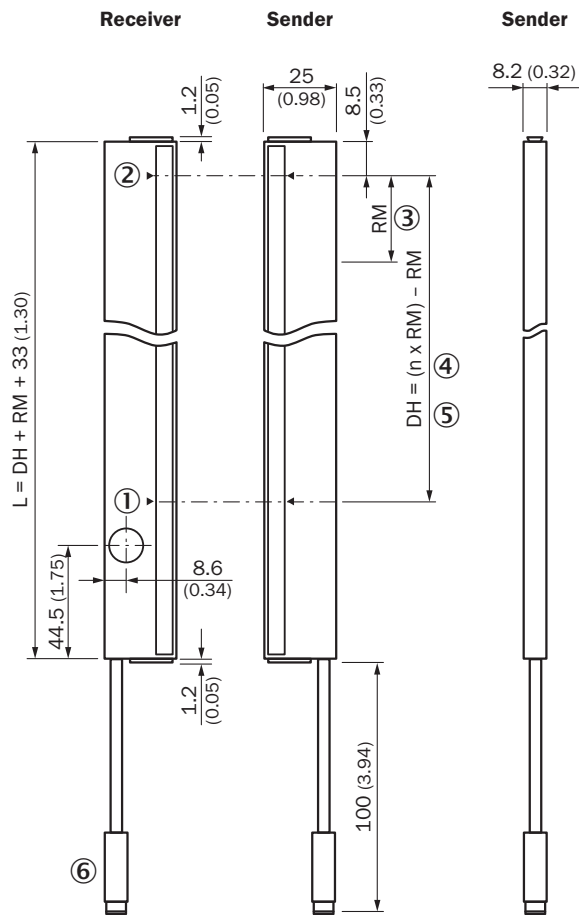
① First beam
② Last beam
③ Beam separation (RM)
④ Number of beams (n)
⑤ Detection height (DH)
⑥ Connection

Connection type and diagram

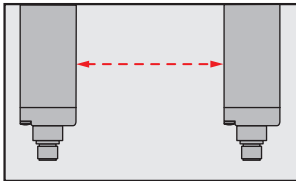Connection type and diagram

Sender

1	L+
2	Test
3	M
4	NC

Receiver

1	L+
2	Teach
3	M
4	Q_1

Concept of operation

Specific features

Optical synchronization

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

Functional principle

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.
Mounting brackets and plates			
	Mounting bracket for light grids from a detection height of 600 mm (with slot, recommended for compensation of material extension caused by temperature), mounting position: front, 2x BEF-SLG1, 2x BEF-SLG2	BEF-SLG-SET1	2055427
Others			
	• **Connection type head A:** Female connector, M8, 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	YF8U14-020VA3XLEAX	2095888

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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.

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