



SAS4-S044P7PS1W0A

SLG

SWITCHING AUTOMATION LIGHT GRIDS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
SAS4-S044P7PS1W0A	1215545

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
Configuration	None
Cross beam/parallel beam	Parallel beam active
Output 1	Output 1 inactive, if light beam interrupted
Automatic teach	Automatic teach inactive
Alignment aid	With alignment aid
Muting function	Muting function deactivated

Mechanics/electronics

Light source	Infrared light
Wave length	950 nm
Supply voltage V_s	DC24 V, $\pm 20\%$
Power consumption sender	$\leq 100\text{ mA}^{1)}$
Power consumption receiver	$\leq 70\text{ mA}$
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)

¹⁾ , without load.

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

¹⁾, without load.

Performance

Maximum range	10 m ¹⁾
Minimum range	Parallel beam: ≥ 0 m
Operating range	7 m
Response time	Parallel beam, 19 ms

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

Ambient data

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

¹⁾ Sunlight.

Classifications

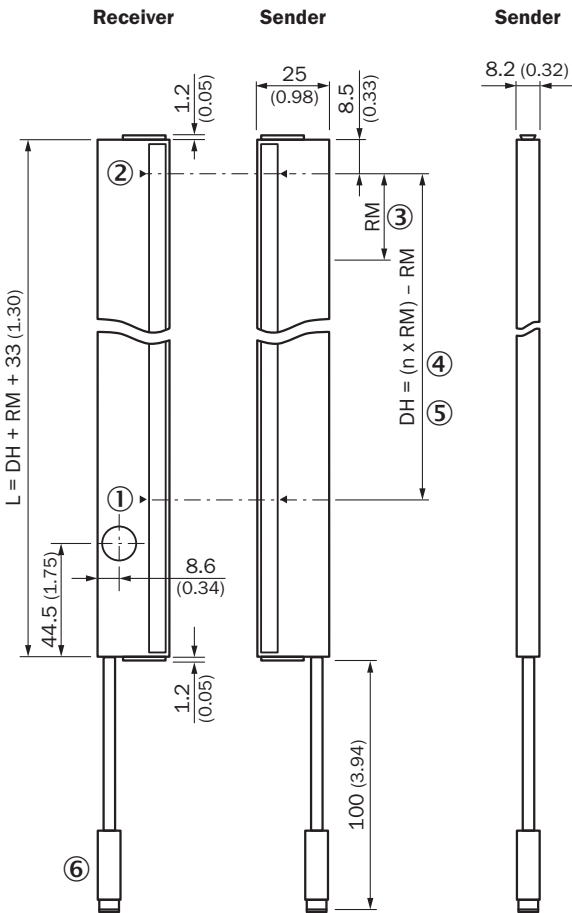
ECI@ss 5.0	27270910
ECI@ss 5.1.4	27270910
ECI@ss 6.0	27270910
ECI@ss 6.2	27270910
ECI@ss 7.0	27270910
ECI@ss 8.0	27270910
ECI@ss 8.1	27270910
ECI@ss 9.0	27270910
ECI@ss 10.0	27270910
ECI@ss 11.0	27270910
ETIM 5.0	EC002549

ETIM 6.0	EC002549
ETIM 7.0	EC002549
UNSPSC 16.0901	39121528

Dimensional drawing (Dimensions in mm (inch))

Sxx-Sxxxxxx1xxx

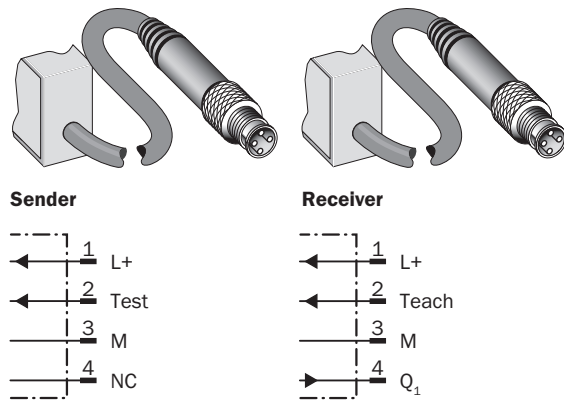
Slim, without stabilizer



- 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

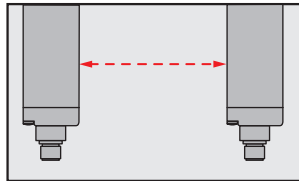
Connection type and diagram



Concept of operation

Specific features

Optical synchronization



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

Funktionsprinzip

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
Plug connectors and cables			
	Head A: female connector, M8, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF8U14-020VA3XLEAX	2095888

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SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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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