



SAS4-S044P3TS2W00

SLG

SWITCHING AUTOMATION LIGHT GRIDS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
SAS4-S044P3TS2W00	1219143

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



Detailed technical data

Features

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	Without teach button with configuration software
Cross beam/parallel beam	Parallel beam active
Output 1	Output 1 active, if light beam interrupted
Automatic teach	Automatic teach inactive
Alignment aid	Without alignment aid
Muting function	Muting function deactivated

Mechanics/electronics

Light source	Infrared light
Housing design (light emission)	Robust
Wave length	950 nm
Supply voltage V_s	DC24 V, ± 20 %
Power consumption sender	≤ 100 mA ¹⁾
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
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

¹⁾, without load.

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

¹⁾, without load.

Performance

Maximum range	4 m ¹⁾
Minimum range	Parallel beam: ≥ 0 mm
Operating range	3 m
Response time	Parallel beam, 19 ms

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

Interfaces

Switching output	PNP
Inputs	Teach-in input

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

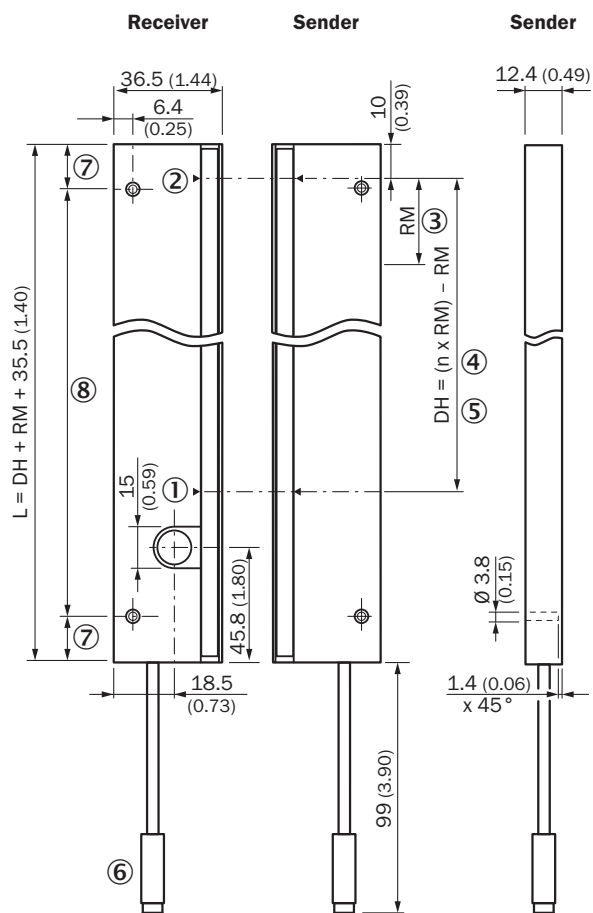
ECl@ss 5.0	27270910
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ECl@ss 6.0	27270910
ECl@ss 6.2	27270910
ECl@ss 7.0	27270910
ECl@ss 8.0	27270910
ECl@ss 8.1	27270910
ECl@ss 9.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549

UNSPSC 16.0901 39121528

Dimensional drawing (Dimensions in mm (inch))

Sxx-Sxxxxxx2xxx

Slim, with stabilizer



- 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)

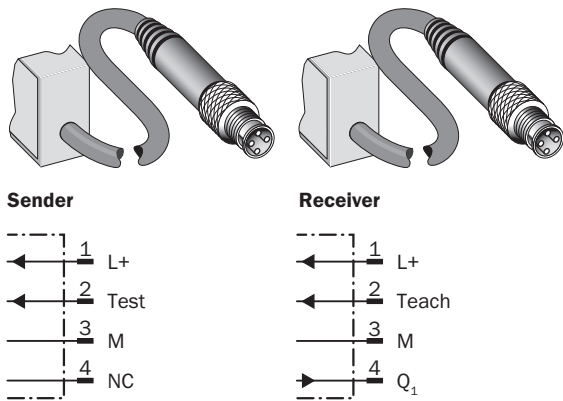
Hole spacing stabilizer

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

Hole spacing stabilizer			
1080	4	320	960
1240	5	320	1280
1400	5	320	1280

Connection type and diagram

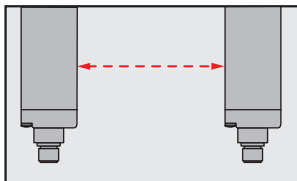
Connection type and diagram



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, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF2A14-020VB3XLEAX	2096234

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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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