

SPL-S440PPS2W04

SWITCHING AUTOMATION LIGHT GRIDS





Ordering information

Туре	Part no.
SPL-S440PPS2W04	1045018

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



Detailed technical data

Features

Technology	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	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 active
Alignment aid	Without alignment aid
Muting function	Muting function deactivated

Performance

Maximum range	3 m $^{1)}$
Minimum range	Parallel beam: ≥ 0 mm ²⁾
Working range	1.5 m
Response time	Parallel beam ≥ 19 ms

 $^{^{1)}\,\}mathrm{No}$ reserve for environmental issue and deterioration of the diode.

Interfaces

Switching output	1 x PNP
Inputs	Job LED
Connection type	Short cable with connector M8, 4-pin

 $^{^{2)}}$ Aperture \pm 10 ° .

Mechanics/electronics

Wave length	Infrared light, 950 nm
Supply voltage V _s	DC24 V, ± 20 % ¹⁾
Power consumption sender	\geq 50 mA $^{2)}$
Power consumption receiver	≥ 50 mA ^{2) 2)}
Ripple	< 5 V _{pp}
Output current I _{max.}	≤ 100 mA
Output load capacitive	100 nF
Output load inductive	1H
Initialization time	1s
Dimensions (W x H x D)	25 mm x 512.4 mm x 8 mm
Housing material	PMMA
Indication	LED
Synchronization	Optical
Enclosure rating	IP 65
Circuit protection	$\mbox{U}_{\mbox{\scriptsize V}}$ connections, reverse polarity protected, Output Q short-circuit protected, Interference pulse suppression
Weight	≥ 60 g
Switching frequency	500 kHz
Aluminum stabilizer	With stabilizer

 $^{^{1)}}$ Limit values.

Ambient data

Protection class	III
EMC	EN 60947-5-2
Ambient temperature	Operation: -25 °C +55 °C Storage: -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

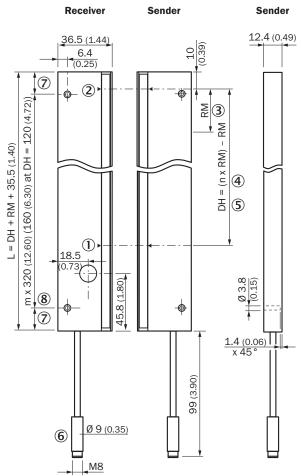
¹⁾ Sunlight.

²⁾ Without load.

Dimensional drawing (Dimensions in mm (inch))

Sxx-Sxxxxxxx2xxx

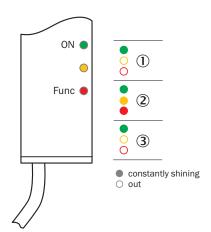
Slim, with stabilizer



- ① First beam
- ② Last beam
- 3 Beam separation (RM)
- ④ Number of beams (n)
- ⑤ Detection height (DH)
- 6 Connection
- ⑦ Same distance
- ® Number of mounting holes (m)

Adjustments

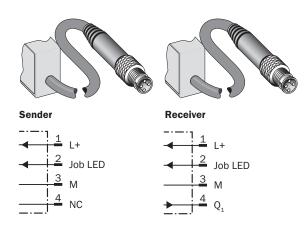
SPL, receiver, LED indication



- ① Supply voltage
- 2 Active if teach process active3 No object in the light path

Connection type and diagram

SPL



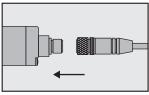
Concept of operation

SPL

Plug & play

1. Plug in and tighten the ring of the connector



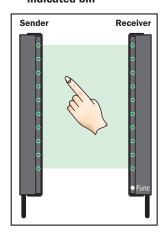




2. Device is ready for use

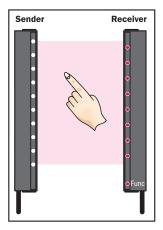
Easy installation

1. Object picking from the indicated bin



The "green" Job LEDs indicate the correct picking bin to the operator and confirm optically that the correct picking has taken place.

2. Incorrect picking



The "red" Job LEDs light in case of picking errors. The function LED "Func" will also turn "red" to indicate a picking error.

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.de/SLG

	Brief description	Туре	Part no.
Mounting brackets and mounting plates			
Adic	Mounting bracket for light grids up to a monitoring height of 600 mm, mounting on the face sides, 2x BEF-SLG1, 2x BEF-SLG2	BEF-SLG-SET1	2055427
Plug connectors and cables			
	Head A: female connector, M8, 4-pin, straight Head B: cable Cable: PVC, unshielded, 2 m	DOL-0804-G02M	6009870

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