

SPL-F120PPS1W04

SICK Sensor Intelligence.

SWITCHING AUTOMATION LIGHT GRIDS

SPL-F120PPS1W04 | SLG

SWITCHING AUTOMATION LIGHT GRIDS



Ordering information

Туре	Part no.
SPL-F120PPS1W04	1046128

Other models and accessories -> www.sick.com/SLG



CE

Detailed technical data

Features

Sensor principle	Sender/receiver
Minimum detectable object (MDO)	Parallel beam, 45 mm
Beam separation	40 mm
Optical light exit	Flat
Number of beams	4
Detection height	120 mm
Parameterization	None
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

Mechanics/electronics

Light source	Infrared light
Wave length	950 nm
Supply voltage V _s	DC24 V, ± 20 %
Power consumption receiver	≤ 50 mA
Ripple	< 5 V _{pp}
Output current I _{max.}	≤ 100 mA
Output load, capacitive	100 nF
Output load, Inductive	1H
Initialization time	1 s
Switching output	PNP
Inputs	Job-LED
Dimensions (W x H x D)	25 mm x 192.4 mm x 8.2 mm

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Connection type	Cable with M8 male connector, 4-pin
Housing material	РММА
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	20 g
Pulse frequency	500 kHz
Aluminum stabilizer	Without stabilizer
Performance	
Maximum range	3 m ¹⁾
Minimum range	Parallel beam: \geq 0 m $^{2)}$

	Parallel beam: $\geq 0 \text{ m}^{27}$
Operating range	1.5 m
Response time	Parallel beam, 19 ms

 $^{\left(1\right) }$ No reserve for environmental issue and deterioration of the diode.

²⁾ Aperture \pm 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

eCl@ss 5.0	27270910
eCl@ss 5.1.4	27270910
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
eCl@ss 10.0	27270910
eCl@ss 11.0	27270910
eCl@ss 12.0	27270910
ETIM 5.0	EC002549

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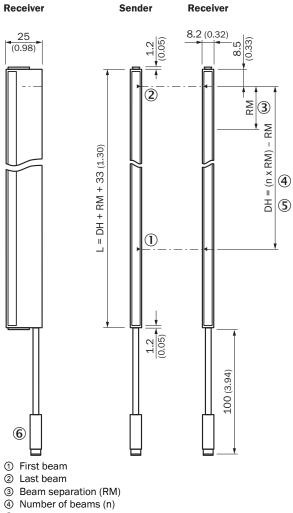
SWITCHING AUTOMATION LIGHT GRIDS

ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
UNSPSC 16.0901	39121528

Dimensional drawing (Dimensions in mm (inch))

Sxx-Fxxxxxx1xxx

Flat, without stabilizer



⑤ Detection height (DH)

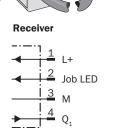
6 Connection

Connection type and diagram

Connection type and diagram







Functional principle

Slim & Flat



Slim model = light emission on narrow side
Flat model = light emission on broad side

Recommended accessories

Other models and accessories -> www.sick.com/SLG

	Brief description	Туре	Part no.
Mounting brackets and plates			
<u>B</u> B08	Mounting bracket for light grids from a detection height of 600 mm (with slot, recom- mended for compensation of material extension caused by temperature), mounting po- sition: front, 2x BEF-SLG1, 2x BEF-SLG2	BEF-SLG-SET1	2055427
Plug connectors and cables			
No.	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

SICK AT A GLANCE

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."

WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com



Online data sheet

