



## Switching automation light grids SLG, SGS

SGS8-S104F7PC1WA4



**Model Name** > [SGS8-S104F7PC1WA4](#)  
**Part No.** > [1045016](#)



**At a glance**

- Variable monitoring lengths from 120 mm up to 1,400 mm (in 160 mm increments)
- Maximum range 10 m
- Response time 18 ms
- 25 mm or 45 mm detection resolution with 40 mm or 80 mm beam spacing possible
- Order-picking with extra-bright job LEDs on the sender and receiver sides
- IP 65 protection for various environmental conditions
- Highly immune to sunlight at 150,000 lx

**Your benefits**

- Small, slim and sleek design enables easy integration into applications
- Capacitive teach-in button and LEDs make commissioning easier for complex solutions
- Slim and flat models offer flexible mounting options
- User-defined factory preset configuration or flexible configuration with teach-in button
- Optical synchronization eliminates the need to lay cables, saving time
- Stealth detection in public places - at only 8 mm x 25 mm, it fits just about anywhere and can be imbedded inside walls, doors, conveyors, and machines, reducing damage
- Auto-teach and auto-muting enable Plug & Play. And, an alignment aid and “Click & Go” provide faster installation.



**Features**

Technology:	Sender/receiver
Task:	Switching light grid
Minimum detectable object (MDO):	Parallel beam, 85 mm
Beam separation:	80 mm
Number of beams:	14

Detection height:	1,040 mm
Optical light exit:	Slim
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 active
Output 2:	Output 2 active, if light beam interrupted
Muting function output 2:	With muting function at output 2
Alarm output 2:	Alarm output at output 2 inactive

## Performance

Maximum range:	10 m <sup>1)</sup>
Minimum range:	Parallel beam: $\geq 0$ mm <sup>2)</sup>
Working range:	7 m
Response time <sup>3)</sup> :	Parallel beam coded version 38 ms

<sup>1)</sup> No reserve for environmental issue and deterioration of the diode <sup>2)</sup> Aperture  $\pm 10^\circ$  <sup>3)</sup> With resistive load

## Interfaces

Output type:	2 x PNP
Connection type:	Short cable with connector M8, 4-pin

## Mechanics/electronics

Wave length:	IR 950 nm
Supply voltage $V_s$ <sup>1)</sup> :	DC 24 V, $\pm 20$ %
Power consumption sender <sup>2)</sup> :	124 mA
Power consumption receiver <sup>3)</sup> , <sup>4)</sup> :	70 mA
Ripple:	< 5 Vpp
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):	25 mm x 1,112.4 mm x 8 mm
Housing material:	PMMA
Indication:	LED
Enclosure rating:	IP 65
Circuit protection:	Output Q short-circuit protected Interference suppression VS connections reverse-polarity protected
Weight:	140 g
Switching frequency:	250 kHz
Aluminum stabilizer:	Without stabilizer
Synchronization:	Optical

<sup>1)</sup> Limit values <sup>2)</sup> <sup>3)</sup> <sup>4)</sup> Without load

## Ambient data

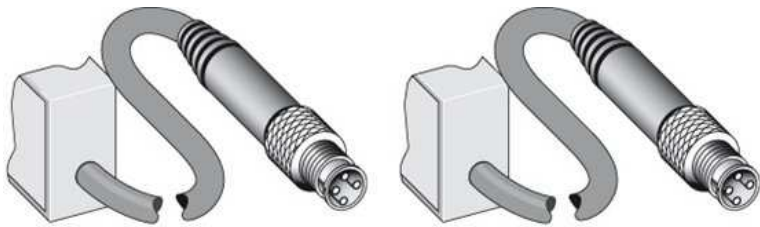
Protection class:	III
EMC:	EN 60947-5-2



Receiver, LED indication



Connection type and diagram



**Sender**



**Receiver  
PNP/NPN**



**Receiver  
2 x PNP/2 x NPN**



## Special functions

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## Setting the switching threshold

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