



Smart light grids SGS

SGS4-S076P7TC1W02



Model Name > [SGS4-S076P7TC1W02](#)
Part No. > [1211306](#)



At a glance

- Variable detection lengths from 600 mm up to 1,400 mm (in 160 mm increments)
- Simple teach-in setup via cable
- Optional parameter setting with teach-in button, no PC required
- Maximum range 10 m
- Response time 18 ms
- 25 mm or 45 mm MDO possible
- Highly immune to sunlight at 150,000 lx
- Small blind zone < 11 mm

Your benefits

- Small, slim and sleek design enables easy integration into applications
- Slim and flat models offer flexible mounting options and optimize shelf/bin space while reducing damage
- Customized preset configurations or set parameters via one-touch teach-in with no PC
- Optical synchronization eliminates the need to lay cables, saving time
- Optional: Capacitive teach-in button and LEDs make commissioning easier for complex solutions
- 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: ≥45 mm
Beam separation:	40 mm
Optical light exit:	Slim

Number of beams:	20
Detection height:	760 mm
Cross beam/parallel beam:	Parallel beam active
Output 1:	Output 1 inactive, if light beam interrupted
Automatic teach:	Automatic teach inactive
Alignment aid:	Without alignment aid
Muting function:	Muting function inactive
Configuration:	Without teach button with configuration software

Performance

Maximum range:	10 m ¹⁾
Minimum range:	Parallel beam: ≥0 mm
Response time:	Parallel beam coded version: ≥38 ms
Working range:	7 m

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

Interfaces

Output type:	1 x PNP
Inputs:	Teach input
Connection type:	Short cable with connector M12, 4-pin

Mechanics/electronics

Wave length:	IR 950 nm
Supply voltage Vs:	DC 24 V _{... 1)} , ± 20 %
Power consumption sender:	160 mA ¹⁾
Power consumption receiver:	70 mA ²⁾
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 832.4 mm x 8 mm
Housing material:	PMMA
Indication:	LED
Synchronization:	Optical
Enclosure rating:	IP 65
Circuit protection:	Output Q short-circuit protected, Interference suppression, VS connections reverse-polarity protected
Weight:	100 g
Power consumption:	160 mA ³⁾
Aluminum stabilizer:	Without stabilizer
Switching frequency:	250 kHz

^{1) 2) 3)} Without load

Ambient data

Protection class:	III
EMC:	EN 60947-5-2
Ambient temperature:	Operation: -25 ... 55 °C, Storage: -25 ... 70 °C
Ambient light safety:	Direct: ≥100,000 lx, Indirect: ≥150,000 lx ¹⁾
Vibration resistance:	5 g, 10 Hz ... 55 Hz (IEC 68-2-6)

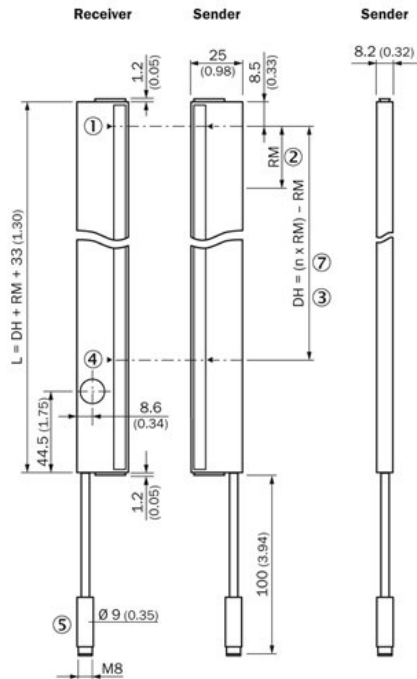
Shock load:

10 g/DIN EN 60068-2-29/16 ms

1) Sunlight

Dimensional drawing

Slim, without stabilizer

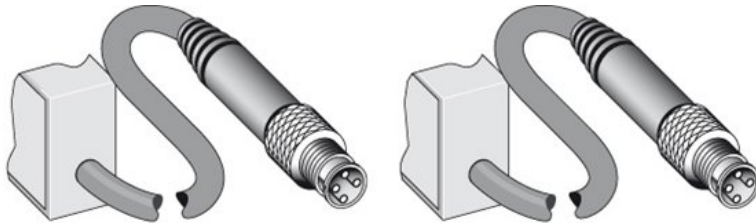


- |1| Last beam
- |2| Beam separation RM
- |3| DH - Detection height (n x 40 mm) - RM
- |4| First beam
- |5| Connection
- |6| Same distance
- |7| n = beam
- |8| m = mounting hole

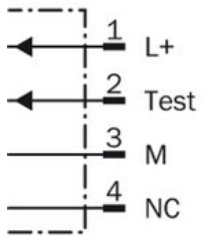
Adjustments



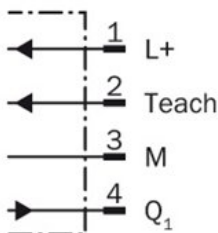
Anschlussart und -schema



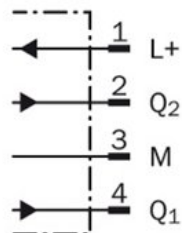
Sender



Receiver PNP/NPN



Receiver 2 x PNP/2 x NPN



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