

SPL-S280PPS2W04







Smart light grids SPL

Model Name > SPL-S280PPS2W04

Part No. > 1209197



At a glance

- Variable detection lengths from 120 mm up to 440 mm
- · No commissioning necessary Plug & Play operation
- · Maximum range 3 m
- · Response time 18 ms
- 25 mm resolution with 40 mm beam separation possible
- · Highly visible job LEDs along the entire length of the sensor
- · Green job LEDs for correct pick and red job LEDs for incorrect pick
- · Can be connected to bus systems

Your benefits

- · Highly visible job LEDs can be seen from any position
- · Picking error display for order picking improves quality
- · Plug & Play operation saves time
- · Automatic teach-in when turned on
- Slim and flat models offer flexible mounting options and optimize shelf/bin space while reducing damage
- Quick, cost-effective installation thanks to optical synchronization no need to wire the sender and receiver together
- · Auto-muting, auto-teach and an alignment aid provide more uptime





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: 8
Detection height: 280 mm

Cross beam/parallel beam: Parallel beam active

Output 1: Output 1 active, if light beam interrupted

Automatic teach:

Alignment aid:

Muting function:

Automatic teach active

Without alignment aid

Muting function inactive

Configuration: Without teach button with configuration software

Performance

Maximum range: 3 m

Minimum range: Parallel beam: ≥0 mm
Response time: Parallel beam: ≥19 ms ²⁾

Working range: 1.5 m

 $^{1)}$ No reserve for environmental issue and deterioration of the diode $^{2)}$ With resistive load

Interfaces

Output type: 1 x PNP Inputs: Job LED

Connection type: Short cable with connector M8, 4-pin

Mechanics/electronics

Wave length: IR 950 nm

Supply voltage Vs: DC 24 $\stackrel{V}{\cancel{N}}$... , \pm 20 % $\stackrel{1)}{\cancel{N}}$

Power consumption sender:

Power consumption receiver::

Fipple:

Output current Imax.:

Output load capacitive:

Output load inductive:

Initialization time:

50 mA

100 mA

100 mA

11 H

11 s

Dimensions (W x H x D): 25 mm x 352.4 mm x 8 mm

Housing material:

Indication:

Synchronization:

Enclosure rating:

PMMA

LED

Optical

IP 65

Circuit protection: Output Q short-circuit protected, Interference suppression, VS

connections reverse-polarity protected

Weight: 40 g
Power consumption: 50 mA 5)

Aluminum stabilizer: With stabilizer

Switching frequency: 500 kHz

1) Limit values 2) 3) 4) 5) Without load

Ambient data

Protection class:

EMC: EN 60947-5-2

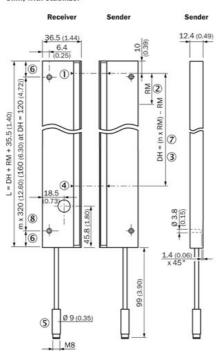
Ambient temperature: Operation: -25 ... 55 °C, Storage: -25 ... 70 °C Ambient light safety: Direct: ≥100,000 lx, Indirect: ≥150,000 lx

 Vibration resistance:
 5 g, 10 Hz ... 55 Hz (IEC 68-2-6)

 Shock load:
 10 g/DIN EN 60068-2-29/16 ms

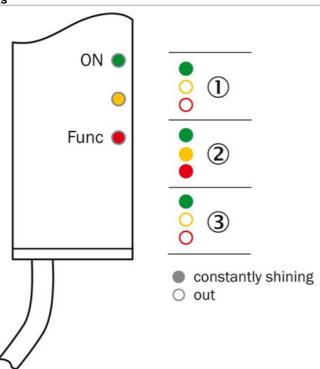
Dimensional drawing

Slim, with stabilizer



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

Adjustments



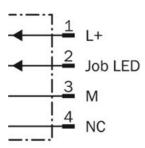
- |1| Supply voltage
- |2| Active, if teach procedure active
- |3| No object in the light path

Anschlussart und -schema

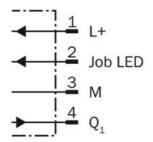




Sender



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