



# S100

Simple 2D LiDAR sensor for object detection

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Application</b>	Indoor
<b>Integrated application</b>	Field evaluation
<b>Aperture angle</b>	Horizontal 270°
<b>Angular resolution</b>	0.5° 1°
<b>Working range</b>	0 m ... 10 m
<b>Scanning range</b>	At 10% remission factor 4.5 m
<b>Scanning frequency</b>	25 Hz
<b>Ambient operating temperature</b>	-10 °C ... +50 °C
<b>Serial</b>	✓
<b>CANopen</b>	✓
<b>Digital inputs</b>	1 (standby) 5 (4 x IN, standby)
<b>Digital outputs</b>	5 (Q1, Q2, Q̄1, Q̄2, diagnosis)
<b>Weight</b>	1.2 kg

### Product description

Damaged goods and defective machines or plant can inhibit or stop processes, thus leading to expensive downtimes. An efficient and cost-effective remedy is now available: the new S100 2D LiDAR sensor, which has been developed specifically for fields of application in which personal protective equipment is not required. The S100 detects faults, monitors distances, and prevents possible collisions.

### At a glance

- Small, lightweight and economical measurement sensor
- Field evaluation using intelligent algorithms
- Parameter setting interface is accessible from the front while the device is mounted

### Your benefits

- Simple mounting due to lightweight design
- No wiring between sender and receiver
- Rapid diagnostics due to a 7-segment display, reducing downtime
- Connectivity in both back and bottom of device provide improved installation flexibility
- 270° scanning angle makes it ideal for both horizontal and vertical applications

### Fields of application

- Industrial trucks
- Automated Guided Vehicles (AGVs)
- Shelving access devices
- Shunting/towing vehicles
- Machine tools
- Doors/gates
- Assembly plants

## Ordering information

Other models and accessories → [www.sick.com/S100](http://www.sick.com/S100)

- **Working range:** 0 m ... 10 m
- **Integrated application:** Field evaluation
- **Enclosure rating:** IP65
- **Color:** black (RAL 9005)
- **Connection type:** 1 x system plug with screw terminal block (accessory)
- **Scanning frequency:** 25 Hz

Switching mode	Type	Part no.
-	S10B-9011BA	1042266
4 x IN	S10B-9011DA	1042267

## 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](http://www.sick.com)