3D Object Detection

Flexibly customizable collision avoidance for mobile platforms

SICK
Sensor Intelligence.

3D Object Detection

Technical data overview

Task	Three-dimensional object detection to avoid collisions between automated guided vehicle systems
Technology	3D snapshot, optical time-of-flight method
Language	English German
Supported products	Visionary-T Mini AP
Minimum screen resolution	176 px x 144 px
Supported browsers	Google Chrome (Version 77 or higher)

Product description

Using the 3D Object Detection SensorApp, collisions between AGVs or AMRs can be effectively avoided. The software solution processes 3D raw data, detects objects, and can classify these as obstacles. Up to 16 detection fields can be configured via the intuitive-to-use web interface. The detection fields can be combined into groups that can be activated according to the application. When an object is detected in a field, digital outputs are switched. These signals can be used to control the speed of the AGVs or AMRs. The app runs directly on the sensor and is therefore ideally matched to the hardware. This ensures fast response times and allows trouble-free operation.

At a glance

- Can detect objects up to 4 cm x 4 cm in size at a distance of up to 6 m
- Size of the smallest detectable object can be configured
- 16 freely configurable detection fields
- Detection fields an be activated via digital inputs
- Browser-based interface
- Typical response times of 100 ms
- Working range: 0.5 m to 9 m

Your benefits

- Fewer downtimes because the software allows the settings to be customized, for example distances, object size, and remission
- Allows the AGVs to travel at higher speeds due to early detection of objects – even those projecting into the space
- Effortless integration and fast commissioning thanks to digital inputs and outputs
- Saves computing resources of the mobile platform because the app runs directly on the sensor
- Simple configuration with no programming knowledge required thanks to the intuitive graphical user interface

Fields of application

- Production logistics
- Mobile automation and industrial vehicles
- Storage and conveyor technology
- Retail and warehousing
- Courier, express, parcel, and postal
- Automotive and parts suppliers

Ordering information

Other models and accessories ➜ www.sick.com/3D_Object_Detection

Product family	Type	Part no.
3D Object Detection	3D Object Detection	1135686

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**

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