



3D Object Detection Core

3D Object Detection

APPLICATION SOFTWARE

SICK
Sensor Intelligence.



Ordering information

Type	part no.
3D Object Detection Core	1135686

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

Detailed technical data

Features

Task	Detecting - Standard objects Protecting objects - Vehicles Processing data - Visualizing Determining position - 3D position determination
Task	Three-dimensional object detection to avoid collisions between automated guided vehicle systems
Scope of delivery	Software license (Core)
License type	The Software is provided under a device license. One license is bound to a specific hardware ID at a time. It is possible to relocate the license to another device if required, after properly removing it from the initial device. The license is issued without a time limit.
Product category	Configurable, Application-specific
Working distance	200 mm ... 16,000 mm ¹⁾
Number of fields	≤ 16
Number of simultaneously monitored fields	≤ 16
Object resolution	The minimum object size is individually configurable for each field.
Response time	For 4 fields, ≥ 100 ms ²⁾
Operator interfaces	Web-Interface
Language	English, German
Supported products	Visionary-T Mini AP (not included with delivery)

¹⁾ Recommended: 9,000 mm.

²⁾ For default setting of four simultaneous 3D fields with 2x2 pixel binning.

System requirements

Minimum screen resolution	176 px x 144 px
Supported browsers	Google Chrome (Version 77 or higher)
Installation tool	SICK AppManager

Performance

Filter	Distance filter Intensity filter Ambiguity filter Remission filter Isolated pixel filter
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Object detection	
Example values for an object of size 4 cm x 4 cm	At 90% remission factor, successful detection up to at least 6 mAt 31% remission factor, successful detection up to at least 5 mAt 5% remission factor, successful detection up to at least 2 m

Interfaces

Digital inputs/outputs	6, configurable
Factory setting	IP address: 192.168.1.10 Subnet mask: 255.255.255.0

Classifications

ECLASS 8.0	13030490
ECLASS 8.1	13030490
ECLASS 9.0	13030490
ECLASS 10.0	13030490
ECLASS 11.0	13030490
ETIM 5.0	EC002582
ETIM 6.0	EC002582
ETIM 7.0	EC002582
ETIM 8.0	EC002582

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