Product family overview



Drive Assist System

Integrated collision warning for industrial trucks

SICK
Sensor Intelligence.

Drive Assist System



Technical data overview

Supply voltage	9 V DC ... 30 V DC (depending on type)
Application	Indoor and outdoor areas (50 m) Indoor and outdoor areas (8 m) (depending on type)
Ambient operating temperature	–33 °C ... +50 °C (depending on type)
Ambient light immunity	100,000 lx / 80,000 lx (depending on type)
Number of field sets	63 configurable
Max. range with 10 % reflectivity	25 m / 8 m (depending on type)
Vehicles	Industrial trucks
Monitored area	Vehicle rear, vehicle front or side
Functions	Output in polar coordinates
Scope of delivery	picoScan150 2D LiDAR sensor with preinstalled Drive Assist System app / TiM881P 2D LiDAR sensor with pre-installed Drive Assist System app (depending on type)
Working range	0.05 m ... 60 m (depending on type)
Scanning frequency	20 Hz / 40 Hz (configurable) / 15 Hz (depending on type)
Angular resolution	0.10° @ 20 Hz 0.25° @ 40 Hz (configurable) 0.33°

Product description

The Drive Assist System driver assistance system can be used to implement integrated warning strategies for collision avoidance and to support the driver. The system offers an environment perception of up to 276° that can be adapted to the specific use of the vehicle. Thanks to the output of polar coordinates, the protection zone and thus the required distance between the vehicle and an object can be determined precisely. The direct integration of the Drive Assist System into the controller of the industrial truck makes it possible to implement various alarm outputs and control interventions, for example reducing the speed of the vehicle or stopping it.

At a glance

- Configurable environment perception for tailored warning strategies
- Abstraction of the data through segmentation of the field of view
- Grouping of scan points into objects
- Cluster-based evaluation, e.g. filtering
- Output in polar coordinates
- CANopen and web-based interface

Your benefits

- Simple implementation of tailored warning strategies and interruptions into the control system
- Individually scalable monitoring area depending on vehicle type and place of operation
- Reliable object recognition regardless of shape and surface – even when strongly affected by ambient light
- Intelligent pre-processing of data directly at the sensor – without additional hardware or software
- Seamless integration and configuration using the vehicle bus system
- Flexible and unobtrusive installation

Fields of application

- Fitting industrial trucks with robust environment perception for integrated warning strategies

Ordering information

Other models and accessories ➜ www.sick.com/Drive_Assist_System

- **Vehicle:** Industrial trucks

Weight	Type	Part no.
220 g	DAS picoScan100	On request
250 g	DAS TiM-P	On request

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