



DistanceGuard

Reliable and anonymous distance measurement

2D LIDAR SENSORS

SICK
Sensor Intelligence.



Technical data overview

Application	Outdoor
Measurement principle	HDDM ⁺
Integrated application	DistanceGuard
Aperture angle	Horizontal 270°
Angular resolution	0.33°
Working range	0.05 m ... 25 m
Scanning range	At 10% remission 8 m
Scanning frequency	15 Hz
Ambient operating temperature	-25 °C ... +50 °C
Ethernet	✓
USB	✓
Digital inputs	4 (Reserved)
Digital outputs	4 (PNP)
Weight	250 g

Product description

The DistanceGuard SensorApp detects the distance between persons and objects within a certain area and issues a warning when the defined minimum distance is undercut. The 2D LiDAR sensor of the TIM series is a hardware base which scans its environment without making contact. The integrated app combines distance clusters of anonymous persons and objects and measures the distances between them. If two objects or persons get too close, the device immediately detects this and sends a signal. The number of identified objects or persons can also be output, and a maximum number can be set here as well. Distancing rules, for example when standing in line, are therefore easy to follow. Adjustments can be made on short notice if the rules change.

At a glance

- Non-contact person and object counting as well as distance measurement between persons or objects in a defined area
- Hassle-free setting and adjustment of warning limits
- Signaling of breaches via digital output or Ethernet interface
- Detection of anonymous objects based on distance clusters

Your benefits

- Simple and reliable compliance with distancing rules based on legal stipulations, for example
- Quick adaptation to local conditions or changed regulations
- Assistance in controlling flows of visitors
- Flexible and inconspicuous installation due to compact dimensions
- Anonymized data processing: No recording of personal data such as images or videos

Fields of application

- Distance monitoring for lines, e.g. in shopping centers, amusement parts or on cruise ships
- Warning when two objects threaten to touch or collide
- Display when the maximum number of persons or objects has been reached in defined areas such as waiting rooms, museums or open spaces

Ordering information

Other models and accessories → www.sick.com/DistanceGuard

- **Application:** Outdoor
- **Integrated application:** DistanceGuard
- **Working range:** 0.05 m ... 25 m

Angular resolution	Digital outputs	Connection type	Measurement principle	Type	Part no.
0.33°	4 (PNP)	1 x "Ethernet" connection, 4-pin M12 female connector 1 x connection "Power", 12-pin, M12 male connector 1 x Micro USB female connector, type B	HDDM*	TIM881A-2101101	1112243

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