



TiM1xx

Sensor for area monitoring: small, simple, cost-effective

2D LIDAR SENSORS

SICK
Sensor Intelligence.



Technical data overview

Application	Indoor
Measurement principle	HDDM ⁺
Integrated application	Field evaluation
Aperture angle	Horizontal 200°
Angular resolution	1°
Working range	0.05 m ... 10 m (depending on type)
Scanning range	At 10% remission 1.2 m ... 3 m, depending on the angle (depending on type)
Scanning frequency	14.5 Hz
Ambient operating temperature	-10 °C ... +50 °C
IO-Link	✓
Digital inputs	1
Digital outputs	2 (Push-pull)
Weight	90 g / 122 g (depending on type)

Product description

TiM1xx is a small, simple, cost-effective laser scanner for a wide variety of area-monitoring applications. It is the starter model of the 2D LiDAR sensors from SICK and opens up new application possibilities with its compact design. TiM1xx is the ideal sensor for challenging presence-monitoring applications. HDDM⁺ technology ensures reliable object detection and offers maximum machine availability even under difficult conditions. With the TiM1xx, detection fields of up to 15.7 m² are easy to configure via software. The integrated IO-Link interface makes sure that commissioning can be performed as quickly as possible and enables flexibility during application as well as simple parameter cloning.

At a glance

- Small, simple, and cost-effective sensor for area monitoring
- Monitoring of an area of up to 15.7 m²
- Low weight of just 90 g
- Field evaluation using integrated software algorithms
- Low power consumption of typically 2.2 W
- Configuration and cloning using IO-Link
- Industrial design

Your benefits

- Low installation effort thanks to monitoring of a 200° field of view
- Low overall operating costs
- Low space requirements thanks to compact dimensions
- Rapid commissioning thanks to simple configuration of the detection zone with software
- Low installation costs and rapid replacement thanks to rotatable connector, IO-Link, and parameter cloning
- Particularly suitable for use in battery-operated vehicles thanks to low power consumption

Fields of application

- Presence monitoring in warehouses
- Overrun and height detection
- Picking applications
- Collision avoidance for automated guided vehicles and machines
- Monitoring of doors and gates

Ordering information

Other models and accessories → www.sick.com/TiM1xx

- **Application:** Indoor
- **Integrated application:** Field evaluation
- **Number of field sets:** 1
- **Angular resolution:** 1°
- **Digital outputs:** 2 (Push-pull)
- **Connection type:** 1 x 5-pin M12 male device connector (rotatable)
- **Measurement principle:** HDDM⁺

Working range	Type	Part no.
0.05 m ... 10 m	TiM150-3010300	1093243
0.05 m ... 3 m	TiM100-3010200	1077524

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