MRS1000P

Programmable 3D LiDAR sensor with multilayer technology for tailor-made solutions

SICK
Sensor Intelligence.

MRS1000P

Technical data overview

Application	Outdoor
Measurement principle	HDDM$^+$
Integrated application	Welcome app (Scanview and 3D Viewer)
Aperture angle	
Horizontal	275°
Vertical	7.5°, Over 4 scan layers
Angular resolution	0.25°
Working range	0.2 m ... 64 m
Scanning range	
At 10% remission factor	16 m
At 90% remission factor	30 m
Amount of evaluated echoes	3
Scanning frequency	50 Hz, 4 x 12.5 Hz
Heating	Self-heating
Ambient operating temperature	−30 °C ... +50 °C
Ethernet	✓
Weight	1.2 kg

Product description

The MRS1000P is a programmable 3D LiDAR sensor for various industrial tasks both in- and outdoors. It is a multi-layer scanner which accurately and reliably detects and measures objects in good time and in multiple dimensions. By collecting large volumes of data on multiple scan layers and from different angles, a large aperture angle can be covered and acquired measurement data can be used universally to solve different applications. Thanks to the SICK AppSpace development environment as well as the SICK Interface & Algorithm API and HALCON image processing library, the integrated application software is extremely flexible.

At a glance

- Four spread layers and a 275° aperture angle
- High weather resistance and reliability through HDDM$^+$ with multi-echo technology
- High flexibility for a wide range of applications
- "Welcome app" for generation of 3D point clouds
- Easy scripting with Lua

Your benefits

- Tailored solution thanks to programming in SICK AppSpace for different LiDAR applications
- Configuration and programming of SensorApps which are run directly on the MRS1000P
- Developer-to-developer support thanks to dynamic SICK AppSpace community (SICK Support Portal, tutorials, trainings, etc.)
- SICK AppPool enables worldwide availability of SensorApps
- Risk-free thanks to free 90-day trial license

Fields of application

- Implementation and user adaptation for a wide range of applications
- Ideal collision protection and navigation for all objects traveling both in- and outdoors in production facilities, ports, mines, etc.
- Reliable monitoring in traffic management, building safety and security, access controls and people counting

Ordering information

Other models and accessories ➜ www.sick.com/MRS1000P

- **Integrated application:** Welcome app (Scanview and 3D Viewer)
- **Scanning frequency:** 50 Hz, 4 x 12.5 Hz

Application	Aperture angle	Scanning range	Weight	Type	Part no.
Outdoor	Horizontal (275°) Vertical (7.5°), Over 4 scan layers	At 10% remission factor 16 m At 90% remission factor 30 m	1.2 kg	MRS1104P-111011	1104278

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**

SICK AG | Waldkirch | Germany | www.sick.com

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