RAS4xx

Extensive sensing range and large-scale coverage for collision avoidance

RADAR SENSORS

SICK
Sensor Intelligence.

Technical data overview

Frequency band	24 GHz … 24.25 GHz [1]
	24.05 GHz … 24.25 GHz [1]
Aperture angle	
Horizontal	± 3.5°
Vertical	± 14°
Working range	0.2 m … 20 m
Response time	< 0.5 s
Number of field sets	3 fields
USB	✓
Enclosure rating	IP65
Ambient operating temperature	−20 °C … +60 °C
Dimensions	101 mm x 151 mm x 60 mm
	101 mm x 151 mm x 60 mm [2]
	101 mm x 151 mm x 60 mm [3]
Weight	580 g … 1,480 g (depending on type)

[1] Other values are permitted for compliance with country-specific regulations.

[2] Evaluation unit.

[3] Sender/receiver unit.

Product description

The RAS4xx product family is made up of radar-based sensors for collision avoidance with a high sensing range and a large detection beam. They are suitable for applications in ports, large cranes, or large devices in the mining and construction machinery sectors. And when it comes to detecting potential collisions and outputting the appropriate signals, they are reliable in any weather conditions.

At a glance

• Optional and simple sensing range adjustment of up to 20 m
• High level of availability even with contamination and in poor weather conditions
• Simple mounting and adjustment
• Additional sender / receiver modules

Your benefits

• The resistant collision avoidance system and driver assistance made to work in a diverse range of applications under any weather conditions
• A configurable sensor even makes it possible to detect awkward objects in extreme situations
• Large sensing ranges and detection beams are ideal for detecting objects early to provide reliable collision avoidance even under high workloads
• Quick and cost-effective adaptation to local conditions
• Long maintenance cycles to provide high levels of availability
• No additional wiring is required thanks to high level of independence from interference signals

Ordering information

Other models and accessories ➜ www.sick.com/RAS4xx

- **Working range:** 0.2 m … 20 m
- **Aperture angle:** ± 3.5 °, ± 14 °
- **Response time:** < 0.5 s
- **Enclosure rating:** IP65
- **Number of field sets:** 3

Frequency band	Radio approval	Weight	Type	Part no.
24 GHz … 24.25 GHz [1]	Europe [2]	580 g	RAS407-2801000	1072142
		980 g	RAS407-2800100	1072144
		1,080 g	RAS407-2801100	1072146
		1,480 g	RAS407-2800200	1072148
24.05 GHz … 24.25 GHz [1]	China, France [3]	580 g	RAS407-2801001	1072143
		980 g	RAS407-2800101	1072145
		1,080 g	RAS407-2801101	1072147
		1,480 g	RAS407-2800201	1072149

[1] Other values are permitted for compliance with country-specific regulations.

[2] Except UK and France.

[3] France fixed installation.

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**

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