



RFID antennas

The right external HF or UHF antenna for your RFID applications

SICK
Sensor Intelligence.



Technical data overview

Frequency band	HF (13.56 MHz) / UHF (860 MHz ... 960 MHz) (depending on type)
Version	Short Range / Long Range (depending on type)
Weight	103 g ... 3,000 g (depending on type)

Product description

Industry-compliant RFID antennas from SICK are available for both the HF and UHF frequency ranges. The large range of sizes offers the right antenna for every application and installation situation. The rugged design was developed specially for the challenging application conditions in industrial environments and outdoor areas. Depending on the antenna and transponders, read ranges of up to 300 mm (HF) or 10 m (UHF) can be achieved. The RFH630 (HF) and RFU63x (UHF) RFID read/write devices from SICK can be used for antenna operation. The RFU63x offers facilities for connecting for several antennas. This means several reading points can be realized and challenging reading situations can be solved from various angles using transponder detection.

At a glance

- Read range up to 10 m for UHF antennas
- Rugged design in accordance with enclosure rating IP67
- Ambient temperature ranges from $-40\text{ }^{\circ}\text{C}$ to $+70\text{ }^{\circ}\text{C}$
- Integrated feedback LEDs
- Circularly polarized UHF antennas

Your benefits

- Optimally aligned antenna characteristics prevent faulty readings, therefore ensuring high process stability
- Reliable operation thanks to rugged design - even under rough industrial environments
- Low-cost extension of the detection range due to the connection of several external antennas to an RFU63x
- Large ambient temperature range enables reliable use even under extreme weather conditions
- Omni-directional reading of transponders thanks to circular antenna polarization

Fields of application

- Identification of trains and cars in rail transport
- Receiving and outgoing goods doors as well as forklift applications in logistics

Ordering information

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

Carrier frequency	Dimensions (L x W x H)	Type	Part no.
13.56 MHz	-	RFA312-3733	1065473
860 MHz ... 960 MHz	136.4 mm x 111.4 mm x 9.8 mm (without connecting cable)	RFA699-002S01	1101447
	254.5 mm x 253 mm x 56.5 mm	RFA641-3440	6034316
865 MHz ... 868 MHz	238.6 mm x 238.6 mm x 64.3 mm	RFA630-000	1058383
	239 mm x 239 mm x 65 mm	RFA630-100	1059946
	30 mm x 190 mm x 190 mm	RFA651-5731	6036102
	35.1 mm x 125.9 mm x 170.5 mm	RFA621-000	1073138
902 MHz ... 928 MHz	238.6 mm x 238.6 mm x 64.3 mm	RFA630-001	1058384
	239 mm x 239 mm x 65 mm	RFA630-101	1059947
	35.1 mm x 125.9 mm x 170.5 mm	RFA621-001	1073139

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