



## RFH6xx

Intelligent RFID communication

RFID

**SICK**  
Sensor Intelligence.



## Technical data overview

|                         |   |
|-------------------------|---|
| <b>Product category</b> | RFID read/write device with integrated antenna  |
| <b>Frequency band</b>   | HF (13.56 MHz)  |
| <b>Version</b>          | Short Range / Mid Range (depending on type) (depending on type)                       |
| <b>Read range</b>       | ≤ 150 mm / ≤ 240 mm (depending on type) (depending on type)                           |
| <b>PROFINET</b>         | ✓, optional over external fieldbus module / ✓ (depending on type) (depending on type) |
| <b>EtherCAT</b>         | ✓, optional over external fieldbus module   |
| <b>Serial</b>           | ✓, RS-232, RS-422, RS-485   |
| <b>CAN</b>              | ✓   |
| <b>CANopen</b>          | ✓   |
| <b>PROFIBUS DP</b>      | ✓, optional over external fieldbus module   |
| <b>Ethernet</b>         | ✓, TCP/IP   |
| <b>EtherNet/IP™</b>     | ✓   |
| <b>Weight</b>           | 450 g ... 760 g (depending on type) (depending on type)                               |

## Product description

The RFH6xx is an ISO/IEC 15693-compatible RFID read/write device for read ranges of up to 240 mm. Thanks to its compact design and integrated antenna, the RFH6xx can be used to flexibly and inexpensively expand existing systems. Support for standard fieldbus systems via a universal connector facilitates integration into practically any application. Integrated signal and data processing allow the identification process to run at extremely high speeds. The direct use of trigger signals and situational control of output mean it can be used as an independent remote unit. The configurable data output formats enable integration into existing IT infrastructures. The RFH6xx complies with the CE and FCC requirements for wireless equipment and can therefore be used worldwide. The intuitive SOPAS user interface makes it easier to access other functions (cloning, diagnostics, heartbeat, script language, time-controlled data output ...).

## At a glance

- 13.56 MHz RFID read/write device for read ranges up to 240 mm
- Transponder communication according to ISO/IEC 15693 standard
- Compact, industrial design with integrated antenna
- Embedded protocols allow interfacing with standard industrial fieldbus technologies
- Powerful micro-processor executes internally configurable logic
- Flexible trigger control
- Supports parameter cloning via microSD memory card
- Built-in diagnostics

## Your benefits

- Reliable identification guarantees maximum throughput
- Adapts to changing needs, providing long-term investment security
- Simple integration saves installation time
- The defined reading field ensures targeted identification of the desired object
- Maintenance-free
- Compact RFID read/write device with integrated antennae and several host interfaces do not require additional connectivity
- The same connectivity and user interface as the bar code scanners and image-based code readers from SICK - compatible thanks to the uniform 4Dpro

## Fields of application

- Container identification on conveyor systems in intralogistics processes
- Object identification in hanging conveyors
- Workpiece carrier detection in production lines
- Position determination of automatic guided vehicles by reading out transponders recessed in the ground

## Ordering information

Other models and accessories → [www.sick.com/RFH6xx](http://www.sick.com/RFH6xx)

- **Radio approval:** global
- **Frequency band:** HF (13.56 MHz)
- **Enclosure rating:** IP67

| Read range             | Connection type | Type           | Part no. |
|------------------------|-----------------|----------------|----------|
| ≤ 150 mm <sup>1)</sup> | Ethernet        | RFH620-1001201 | 1044839  |
|                        | Cable           | RFH620-1000001 | 1044838  |
| ≤ 240 mm <sup>1)</sup> | Ethernet        | RFH630-1102101 | 1054746  |
|                        | Cable           | RFH630-1000001 | 1054747  |

<sup>1)</sup> With RFID ISO card transponder in plane parallel alignment to read/write device antenna; depending on dimensions and quality of transponder.

## 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](http://www.sick.com)