



## RFH5xx

HF transponder identification using a small RFID read/write device for close ranges

**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
<b>Read range</b>	≤ 35 mm ... ≤ 80 mm (depending on type)
<b>IO-Link</b>	✓, IO-Link V1.1
<b>Weight</b>	37 g ... 108 g (depending on type)

### Product description

The RFH5xx product family is the ideal solution for machines and systems in closed production and logistics processes in which objects have to be identified in tight spaces. The clearly defined detection ranges of these HF write/read devices enable reliable singulation of transponders, even at very small object distances.

In addition, the small designs of the RFH5xx offer the right solution for nearly any installation situation. Devices can also be integrated into a variety of control systems via the IO-Link interface. The COM3 transmission protocol and the process data size of 32 bytes support even extensive reading and writing tasks.

### At a glance

- Reading and writing of transponders in accordance with ISO/IEC 15693
- Types: M18, M30 and 40 x 40 mm
- Read range: Up to 80 mm
- IO-Link interface: COM3 data transmission rate (230.4 kBaud), process data size 32 bytes
- Standard IO mode for operation as binary sensor
- Rugged design in accordance with IP67
- Ambient temperature: -25 °C to +80 °C

### Your benefits

- Different designs and sizes available - for more flexibility when installing into machines and systems
- Reliable singulation of transponders, even at minimal object distances, over small and clearly-defined detection ranges
- Also masters extensive reading and writing tasks thanks to the COM3 transmission protocol and process data size of 32 bytes
- Easy and flexible integration into various control systems thanks to IO-Link
- Quick and convenient installation as only a few parameter settings are required

### Fields of application

- Hanging conveyor for clothes: Identification with RFID
- Workpiece carrier in assembly lines: Identification with RFID

### Ordering information

Other models and accessories → [www.sick.com/RFH5xx](http://www.sick.com/RFH5xx)

- **Frequency band:** HF (13.56 MHz)

Radio approval	Read range	Enclosure rating	Type	Part no.
European Union, USA, Canada, Australia, Korea, México, China, India, United Kingdom	≤ 35 mm <sup>1)</sup>	IP67	RFH505-1004301	6072840
	≤ 60 mm <sup>1)</sup>	IP67	RFH510-1004301	6072841
European Union, USA, Canada, Australia, Korea, México, China, India, United Kingdom, Israel	≤ 80 mm <sup>1)</sup>	IP68	RFH515-1004301	6072842

<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)