



## RFID RFH6xx / RFH630 / Mid Range

RFH630-1000001



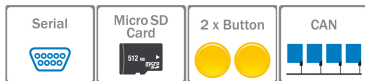
**Model Name** > [RFH630-1000001](#)  
**Part No.** > [1054747](#)

#### At a glance

- 13.56 MHz RFID interrogator for 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 micro SD flash card
- Built-in diagnostics

#### Your benefits

- Reliable identification ensures maximum throughput
- Adapts to changing needs, ensures investment over the long term
- Simple integration saves installation time
- A wide range of functionality ensures flexible solutions
- Maintenance-free
- Uses same connectivity and configuration software as SICK's bar code scanners and image-based code readers - compatible through standardized IDpro platform



#### Features

|                         |                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product category:       | Interrogator (write/read unit)                                                                                                                                                                           |
| Frequency band:         | HF (13.56 MHz)                                                                                                                                                                                           |
| Carrier frequency:      | 13.56 MHz                                                                                                                                                                                                |
| Version:                | Mid Range                                                                                                                                                                                                |
| Output power:           | 1,000 mW                                                                                                                                                                                                 |
| RFID standard:          | ISO/IEC 15693, ISO 18000-3 Mode 1                                                                                                                                                                        |
| Scanning range:         | Max. 240 mm <sup>1)</sup>                                                                                                                                                                                |
| Antenna:                | Integrated                                                                                                                                                                                               |
| Further functions:      | Cloning function (SD card or system), Diagnosis, Updatable firmware, Freely programmable data output format, Heartbeat, Triggering                                                                       |
| Data transmission rate: | 26 kbit/s (default)                                                                                                                                                                                      |
| Typical access times:   | Read 1 block (32 bit/4 Byte): 13 ms<br>Write 1 block (32 bit/4 Byte): 16 ms<br>Read 28 blocks (896 bit/112 Byte): 64 ms<br>Write 28 blocks (896 bit/112 Byte): 442 ms<br>Read UID (64 bit/8 Byte): 18 ms |

Connection type: Standard

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

## Interfaces

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|                                                   |                                                                                                                     |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Serial (RS-232, RS-422):                          | ✓                                                                                                                   |
| Data transmission rate (Serial (RS-232, RS-422)): | 0.3 kBaud ... 500 kBaud                                                                                             |
| Ethernet:                                         | -                                                                                                                   |
| Protocol (Ethernet):                              | PROFINET (optional via external connection module CDM), EtherCAT (optional via external connection module CDF600-2) |
| CAN bus:                                          | ✓                                                                                                                   |
| Data transmission rate (CAN bus):                 | 20 kbit/s ... 1,000 kbit/s                                                                                          |
| Protocol (CAN bus):                               | CANopen, CSN (SICK CAN Sensor Network)                                                                              |
| PROFIBUS DP:                                      | ✓                                                                                                                   |
| Remark (PROFIBUS DP):                             | Optional via external connection module (CDF)                                                                       |
| DeviceNet:                                        | ✓                                                                                                                   |
| Remark (DeviceNet):                               | Optional available externally                                                                                       |
| Switching inputs:                                 | 4 ("Sensor 1", "Sensor 2", 2 inputs via optional CMC600 in CDB620/CDM420)                                           |
| Switching outputs:                                | 4 ("Result 1", "Result 2", 2 outputs via optional CMC600 in CDB620/CDM420)                                          |
| Optical indicators:                               | 7 LEDs (feedback LED, status displaysReady, Result, RF, Data, CAN, LNK TX)                                          |
| Acoustic indicators:                              | 1 beeper (to confirm reading, adjustable)                                                                           |

## Mechanics/electronics

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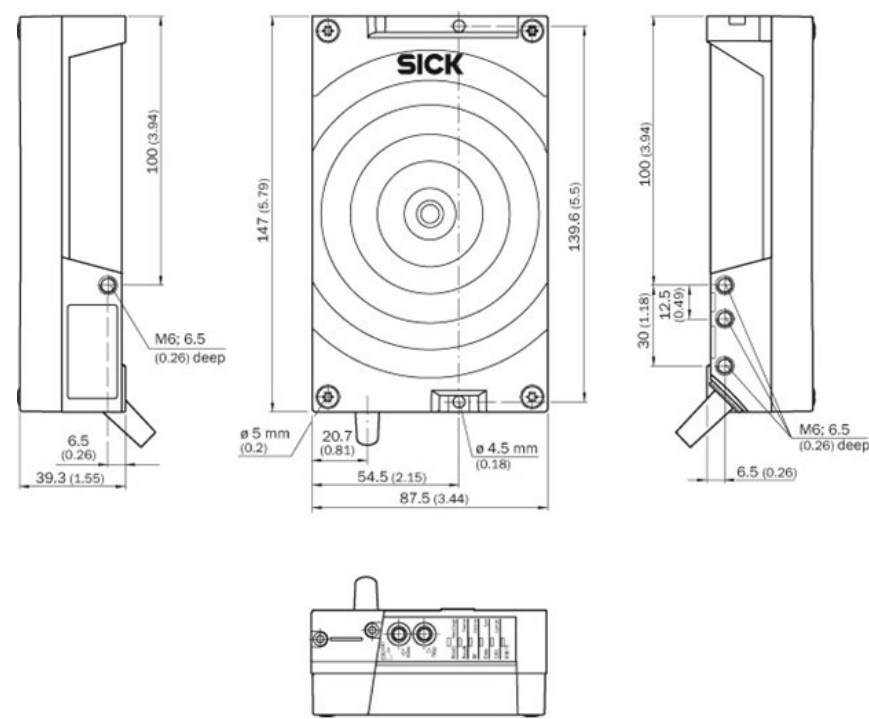
|                        |                                   |
|------------------------|-----------------------------------|
| Electrical connection: | 1 Cable with 15-pin D-sub HD plug |
| Operating voltage:     | 10 V DC ... 30 V DC               |
| Power consumption:     | Typ. 8 W                          |
| Housing color:         | Blue, black                       |
| Enclosure rating:      | IP 67                             |
| Protection class:      | III                               |
| Weight:                | 760 g, with connecting cable      |
| Dimensions:            | 147 mm x 88 mm x 39 mm            |

## Ambient data

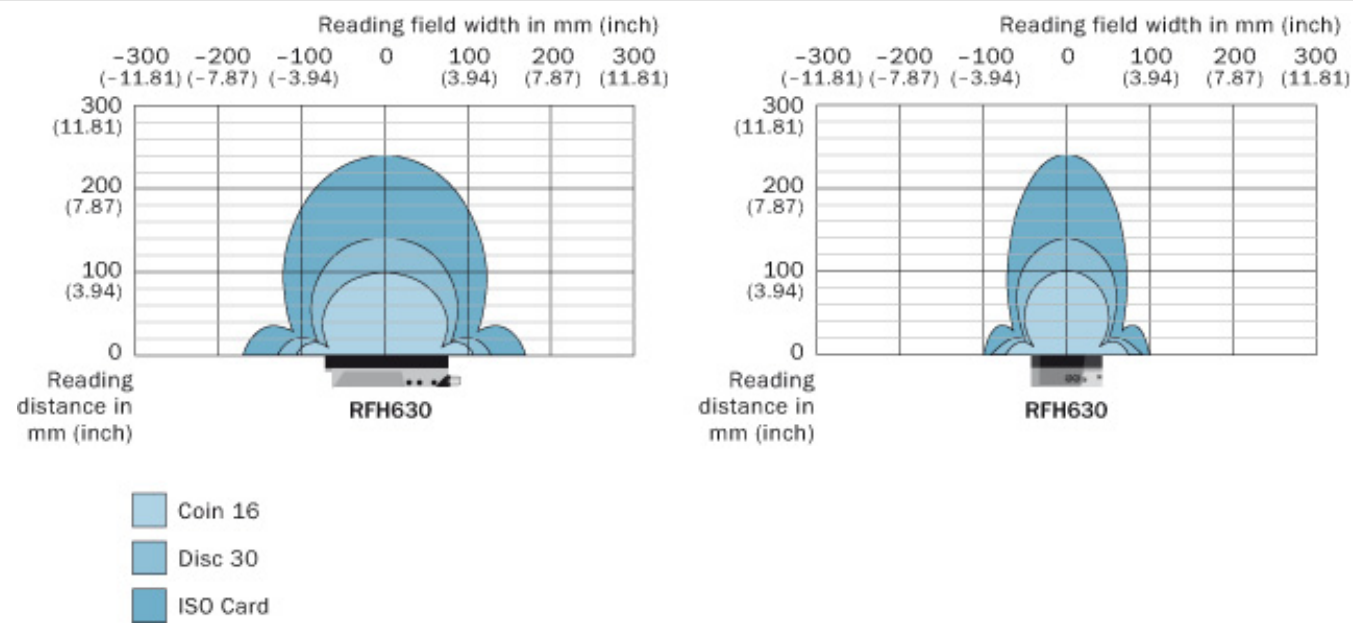
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|                                      |                                                          |
|--------------------------------------|----------------------------------------------------------|
| Radio equipment type approval:       | Europe (EN 300330-2 V1.5.1), North America (FCC Part 15) |
| Electromagnetic compatibility (EMC): | EN 301489-3 V1.4.1 Receiver Class 2                      |
| Vibration resistance:                | EN 60068-2-6                                             |
| Shock resistance:                    | EN 60068-2-27                                            |
| Ambient operating temperature:       | -20 °C ... 50 °C                                         |
| Storage temperature:                 | -25 °C ... 70 °C                                         |
| Permissible relative humidity:       | 95 %, non-condensing                                     |

Dimensional drawing



Reading field diagram



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