



**RFID**  
**RFH6xx / RFH620 / Short Range**

RFH620-1000001



**Model Name** > [RFH620-1000001](#)  
**Part No.** > [1044838](#)



**At a glance**

- 13.56 MHz RFID write/read unit for ranges up to 150 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 processor executes internally configurable logic
- Flexible trigger control
- Supports parameter cloning via Micro SD card
- Built-in diagnostics functionality

**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 4Dpro platform



**Features**

Product category:	Write/read device with integrated antenna
Frequency band:	HF (13.56 MHz)
Carrier frequency:	13.56 MHz
Version:	Short Range
Output power:	200 mW
RFID standard:	ISO/IEC 15693, ISO 18000-3 Mode 1
Scanning range:	Max. 150 mm <sup>1)</sup>
Antenna:	Integrated
Further functions:	Cloning function (microSD memory 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 Write 1 block (32 bit/4 Byte): 16 ms Read 28 blocks (896 bit/112 Byte): 64 ms Write 28 blocks (896 bit/112 Byte): 442 ms Read UID (64 bit/8 Byte): 18 ms

Radio approval: Global (EN 300330-2 V1.5.1) (FCC Part 15)

Connection type: Cable

<sup>1)</sup> With RFID ISO card transponder in plane parallel alignment to read/write device 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
USB:	-
Ethernet:	-
Protocol (Ethernet):	PROFINET (optional via external connection module CDF600-2), EtherCAT (optional via external connection module CDF600)
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 (CDF600-2)
DeviceNet:	✓
Remark (DeviceNet):	Optional available externally
Switching inputs:	4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420)
Switching outputs:	4 ("Result 1", "Result 2", 2 outputs via optional parameter storage CMC600 in CDB620/CDM420)
Optical indicators:	6 LEDs (Ready, Result, RF, Data, CAN, LNK TX)
Acoustic indicators:	1 beeper (to confirm reading, adjustable)
Configuration software:	SOPAS ET

## Mechanics/electronics

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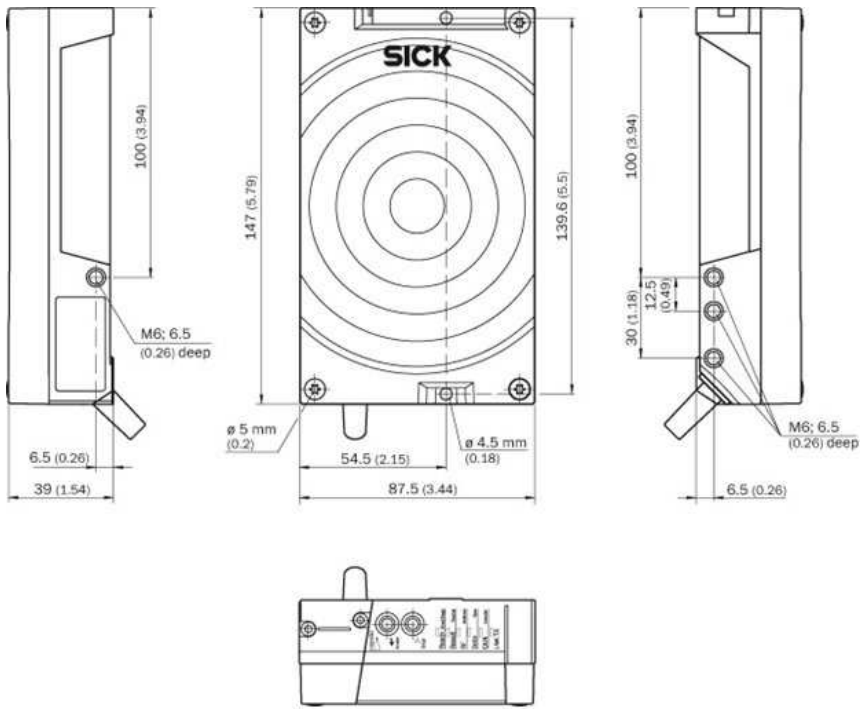
Electrical connection:	1 x Cable with 15-pin D-sub HD male connector
Operating voltage:	10 V DC ... 30 V DC
Power consumption:	Typ. 5 W
Housing color:	Blue, black
Enclosure rating:	IP 67
Protection class:	III
Weight:	520 g, with connecting cable
Dimensions:	147 mm x 88 mm x 39 mm

## Ambient data

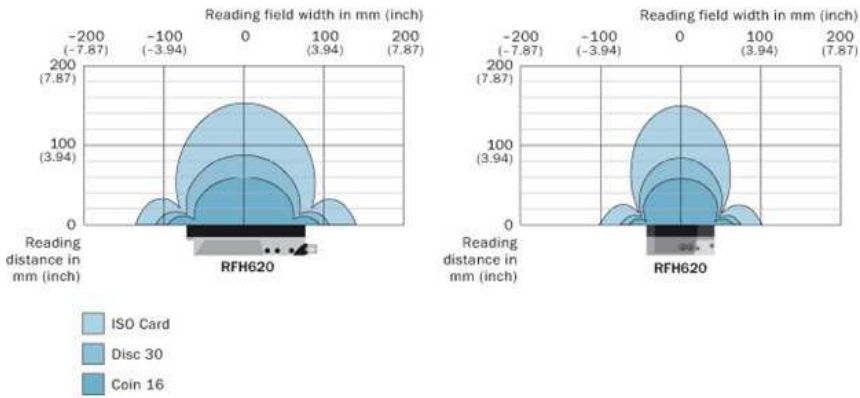
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Electromagnetic compatibility (EMC):	EN 301489-3 V1.4.1 Receiver Class 2
Vibration resistance:	EN 60068-2-6
Shock resistance:	EN 60068-2-27
Ambient operating temperature:	-20 °C ... +60 °C
Storage temperature:	-25 °C ... +70 °C
Permissible relative humidity:	95 %, non-condensing

**Dimensional drawing**



**Reading field diagram**



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