



RFID
RFH6xx / RFH620 / Short Range

RFH620-1001201



Model Name > [RFH620-1001201](#)
Part No. > [1044839](#)



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 |
| RFID standard: | ISO/IEC 15693, ISO 18000-3 Mode 1 |
| Scanning range: | Max. 150 mm ¹⁾ |
| 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: Ethernet

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

Interfaces

| | |
|---|--|
| Serial (RS-232, RS-422): | ✓ |
| Data transmission rate (Serial (RS-232, RS-422)): | 0.3 kBaud ... 500 kBaud |
| USB: | - |
| Ethernet: | ✓ |
| Protocol (Ethernet): | TCP/IP, EtherNet/IP, PROFINET, EtherCAT (optional via external connection module CDF600) |
| Data transmission rate (Ethernet): | 10/100 Mbit |
| 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: | 3 ("Sensor 1", 2 inputs via optional parameter storage CMC600 in CDB620/CDM420) |
| Switching outputs: | 2 (via 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

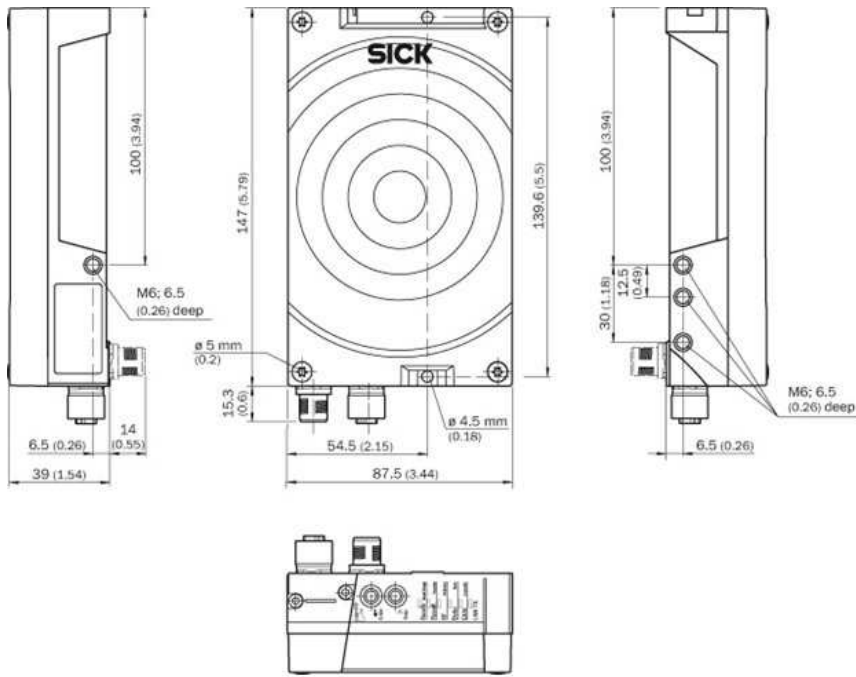
| | |
|------------------------|--|
| Electrical connection: | 1 x Swivel connector with 4-pin M12 female connector and 12-pin M12 male connector |
| Operating voltage: | 10 V DC ... 30 V DC |
| Power consumption: | Typ. 5 W |
| Housing color: | Blue, black |
| Enclosure rating: | IP 67 |
| Protection class: | III |
| Weight: | 450 g |
| Dimensions: | 147 mm x 88 mm x 39 mm ¹⁾ |

¹⁾ Swivel connector is 15 mm longer

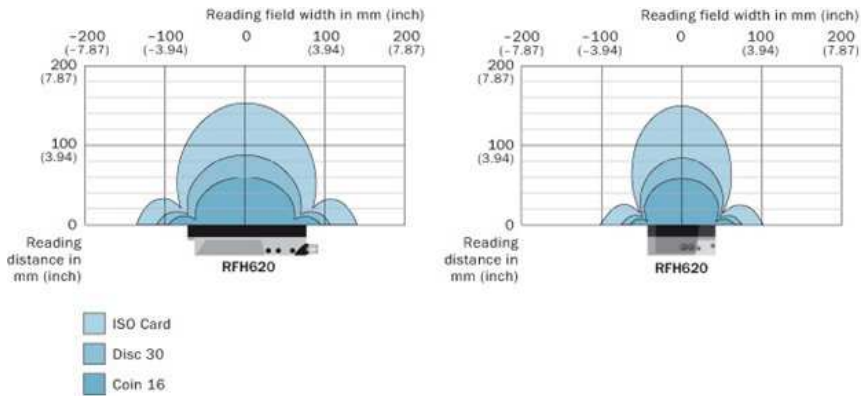
Ambient data

| | |
|--------------------------------------|-------------------------------------|
| 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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