



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 IDpro platform



Features

Product category:	Interrogator (write/read unit)
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 (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 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
Connection type:	Ethernet

¹⁾ With RFID ISO card transponder in plane parallel alignment to interrogator 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 (optional via external connection module CDM), EtherCAT (optional via external connection module CDF600-2)
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 (CDF)
DeviceNet:	✓
Remark (DeviceNet):	Optional available externally
Switching inputs:	3 ("Sensor 1", 2 inputs via optional 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)

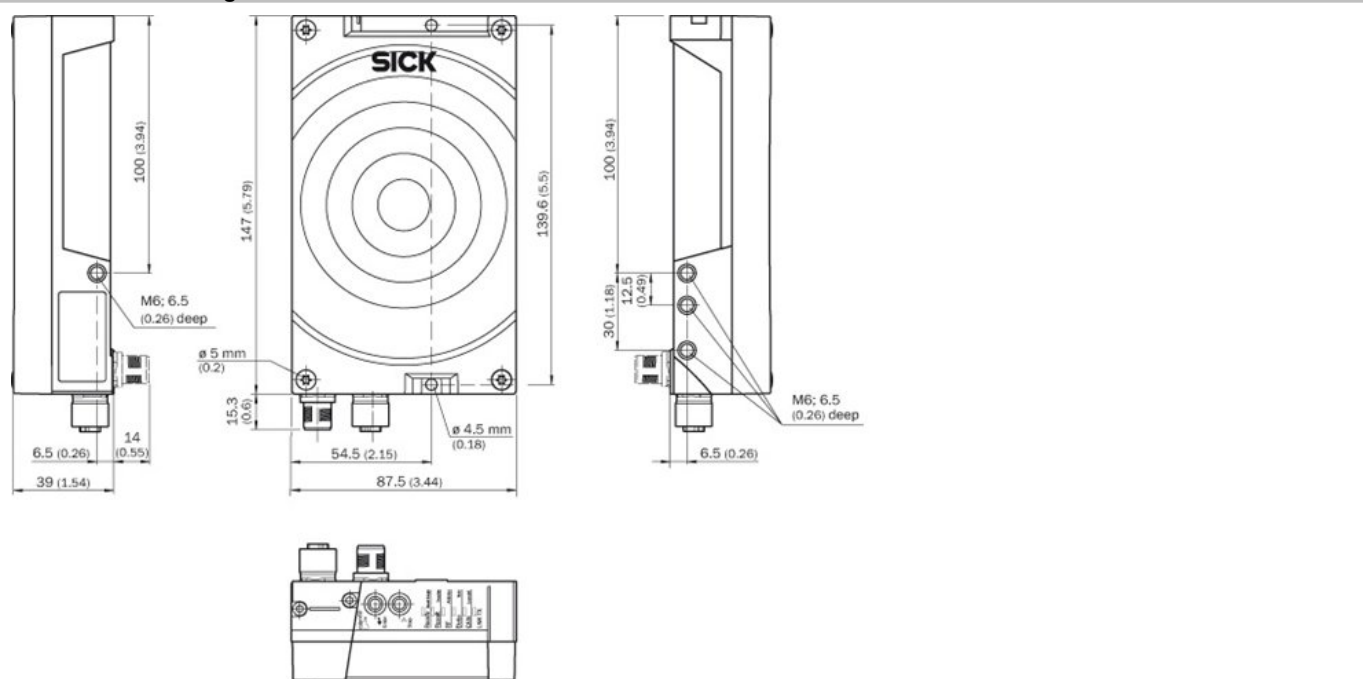
Mechanics/electronics

Electrical connection:	1 Swivel connector with 4-pin M12 plug and 12-pin M12 socket
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⁾

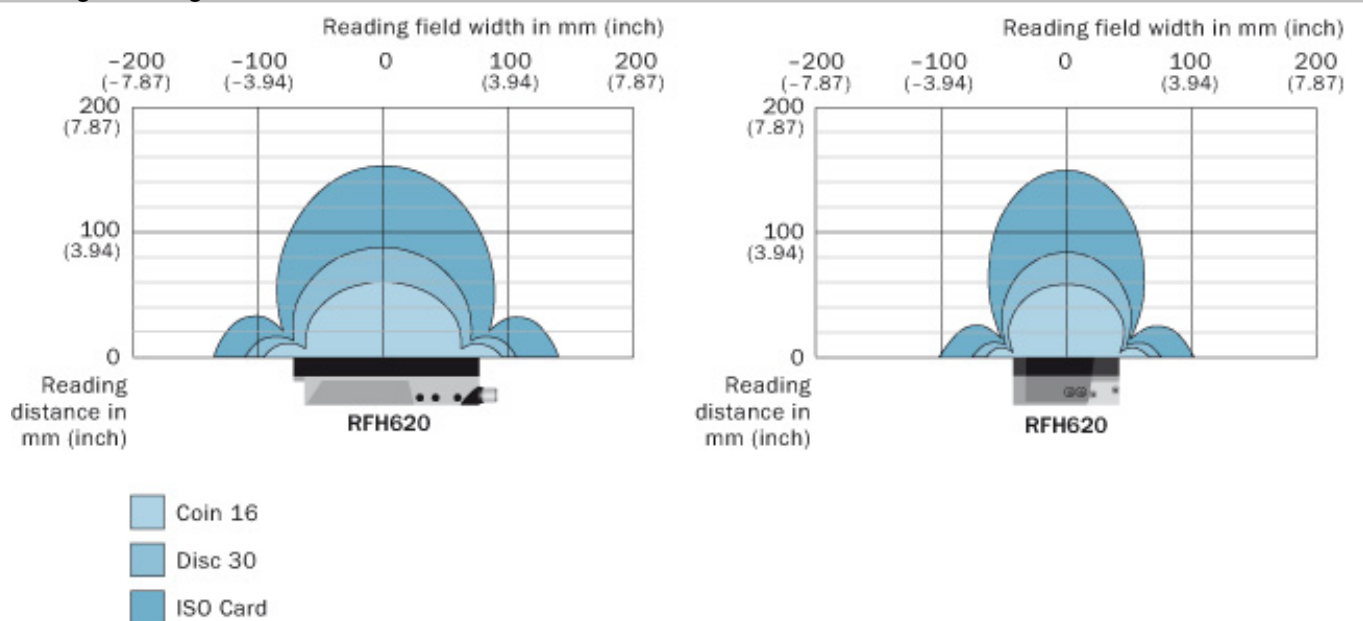
¹⁾ Swivel connector is 15 mm longer

Ambient data

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 ... 60 °C
Storage temperature:	-25 °C ... 70 °C
Permissible relative humidity:	95 %, non-condensing



Reading field width in mm (inch)



Australia

Phone +61 3 9457 0600
1800 334 802 – tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900
E-Mail sac@sick.com.br

Canada

Phone +1 905 771 14 44
E-Mail information@sick.com

Ceská Republika

Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China

Phone +86 4000 121 000
E-Mail info.china@sick.net.cn
Phone +852-2153 6300
E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301
E-Mail kundenservice@sick.de

España

Phone +34 93 480 31 00
E-Mail info@sick.es

France

Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-6801000
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

Phone +81 (0)3 3358 1341
E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680
E-Mail office@sick.hu

Nederlands

Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00
E-Mail austefjord@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

Phone +7-495-775-05-30
E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732
E-Mail admin@sicksgp.com.sg

Slovenija

Phone +386 (0)1-47 69 990
E-Mail office@sick.si

South Africa

Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4
E-Mail info@sickkorea.net

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886-2-2375-6288
E-Mail sales@sick.com.tw

Türkiye

Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 8865 878
E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780
1 800-325-7425 – tollfree
E-Mail info@sickusa.com

More representatives and agencies
at www.sick.com