



RFH630-1102101

RFH6xx

RFID

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
RFH630-1102101	1054746

Other models and accessories → www.sick.com/RFH6xx



Detailed technical data

Features

Version	Mid Range
Product category	Write/read device with integrated antenna
Radio approval	Global
Frequency band	HF (13.56 MHz)
Carrier frequency	13.56 MHz
Output power	1,000 mW
RFID standard	ISO/IEC 15693, ISO/IEC 18000-3 "Mode 1"
Connection type	Ethernet
Scanning range	≤ 240 mm ¹⁾
Antenna	Integrated, additional connection for external antenna
Further functions	Freely programmable data output format, Heartbeat, diagnosis, cloning function (microSD memory card or system), updatable firmware, triggering
Typical access times	UID read (64 bits/8 bytes): 18 ms 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
Data transmission rate	26 kbit/s (default)

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

Interfaces

Ethernet	✓, TCP/IP
Data transmission rate	10/100 MBit/s
PROFINET	✓
Function	PROFINET Single Port, PROFINET Dual Port (optional via external connection module CDF600-2)
Data transmission rate	10/100 MBit/s
EtherNet/IP™	✓
Data transmission rate	10/100 MBit/s

EtherCAT®		✓
	Type of fieldbus integration	Optional over external fieldbus module CDF600
Serial		✓, RS-232, RS-422, RS-485
	Data transmission rate	0.3 kBaud ... 115.2 kBaud
CAN		✓
	Remark	CSN (SICK CAN Sensor Network)
	Data transmission rate	20 kbit/s ... 1,000 kbit/s
CANopen		✓
	Data transmission rate	20 kbit/s ... 1,000 kbit/s
PROFIBUS DP		✓
	Type of fieldbus integration	Optional over external fieldbus module CDF600-2
DeviceNet™		✓
	Type of fieldbus integration	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		7 LEDs (feedback LED, status displays, 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 17-pin M12 male connector
Supply voltage	10 V DC ... 30 V DC
Power consumption	Typ. 8 W
Housing color	Blue, black
Enclosure rating	IP67
Protection class	III
Weight	710 g
Dimensions (L x W x H)	147 mm x 88 mm x 39 mm ¹⁾

¹⁾ Swivel connector is 15 mm longer.

Ambient data

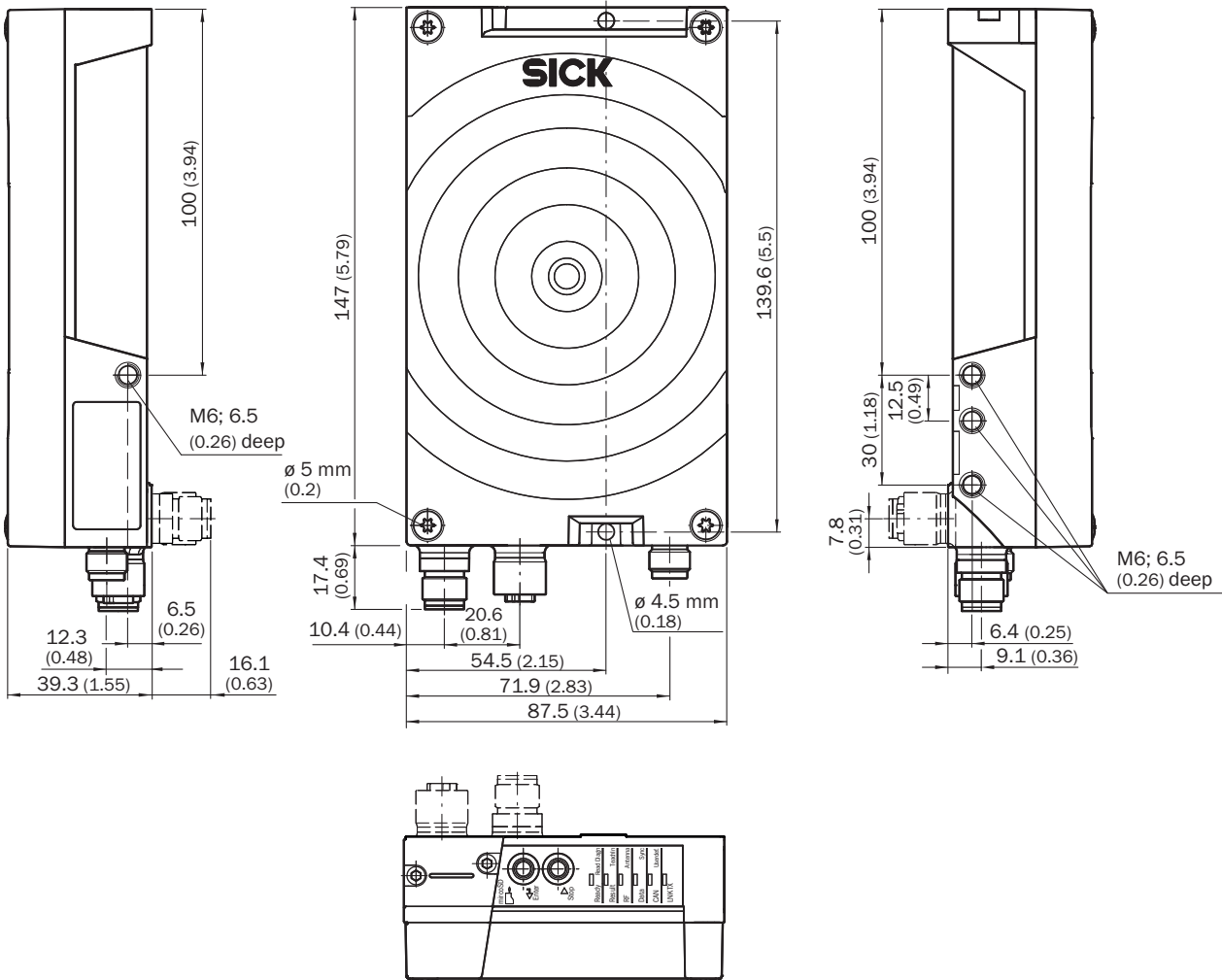
Electromagnetic compatibility (EMC)	EN 301489-3 V1.6.1 Receiver Class 2
Vibration resistance	EN 60068-2-6
Shock resistance	EN 60068-2-27
Ambient operating temperature	-20 °C ... +50 °C
Storage temperature	-25 °C ... +70 °C
Permissible relative humidity	95 %, Non-condensing

Classifications

ECl@ss 5.0	27280401
ECl@ss 5.1.4	27280401
ECl@ss 6.0	27280401

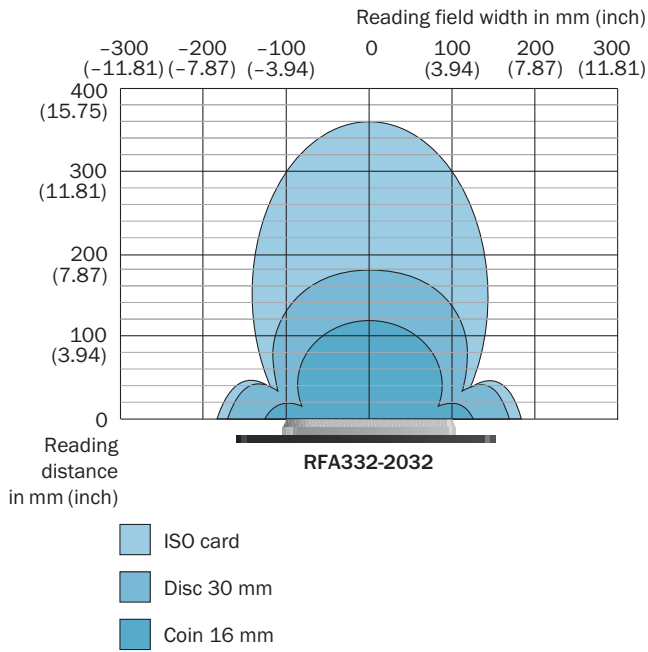
ECl@ss 6.2	27280401
ECl@ss 7.0	27280401
ECl@ss 8.0	27280401
ECl@ss 8.1	27280401
ECl@ss 9.0	27280401
ETIM 6.0	EC002998
UNSPSC 16.0901	52161523

Dimensional drawing (Dimensions in mm (inch))

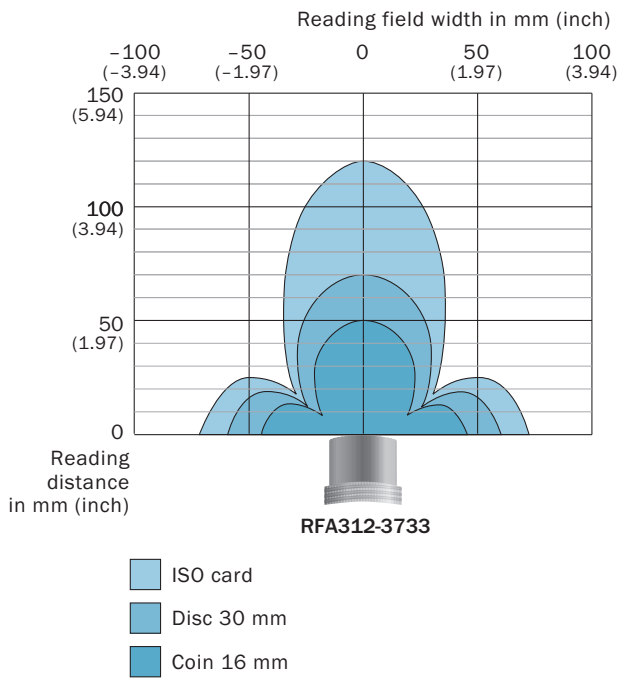


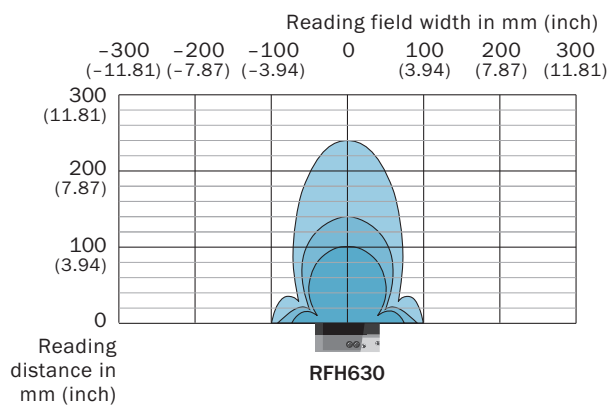
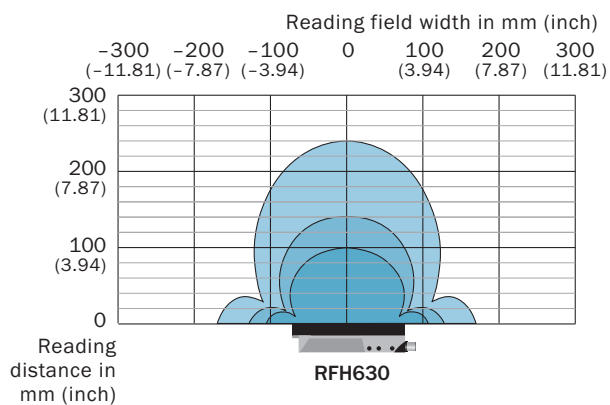
Reading field diagram




RFH630 Ethernet with external antenna



RFH630 Ethernet with external antenna












-  ISO Card
-  Disc 30
-  Coin 16

Recommended accessories

Other models and accessories → www.sick.com/RFH6xx

	Brief description	Type	Part no.
Mounting brackets and plates			
	Mounting bracket, mounting hardware included	Mounting bracket	2048551
Plug connectors and cables			
	Head A: female connector, M12, 17-pin, straight Head B: male connector, D-Sub-HD, 15-pin, straight Cable: Power, serial, CAN, digital I/Os, shielded, 2 m	Connection cable (male connector - female connector)	2055419
	Head A: male connector, M12, 4-pin, straight, D-coded Head B: male connector, RJ45, 8-pin, straight Cable: Ethernet, twisted pair, PUR, halogen-free, shielded, 2 m	SSL-2J04-G02ME	6034414
Modules			
	Small connection module for one sensor, 4 cable glands, base for CMC600	CDB620-001	1042256
	Fieldbus proxy/gateway for connecting identification sensors to PROFIBUS-DP networks (PROFIBUS interface: 2 x M12, male connector/female connector, 5-pin)	CDF600-2100	1058965
	Fieldbus proxy/gateway for connecting one identification sensor to PROFINET-IO networks (interface 2 x M12, female connector/female connector, 4-pin)	CDF600-2200	1062460
RFID transponder			
	HF transponder, PA 6, diameter 50 mm, NXP ICODE SLIX	Disk (50 mm)	6033781

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:

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