



RFU620-10514

RFU62x

RFID

SICK
Sensor Intelligence.



Other models and accessories → www.sick.com/RFU62x



¹⁾ Depending on transponder used and ambient conditions.

Mechanics/electronics

Connection type	1, 1 x M12, 8-pin female connector, X-coded, USB, 5-pin micro-B socket
Supply voltage	48 V DC ... 57 V DC ¹⁾
Power consumption	Typ. 8 W, standby 3 W
Housing material	Aluminum die cast Plastic (PPS)
Enclosure rating	IP67
Protection class	III
Weight	780 g
Dimensions (L x W x H)	137 mm x 131 mm x 56 mm
MTBF	> 100 years

¹⁾ According to PoE technology.

Interfaces

Ethernet		✓ , TCP/IP, PoE, OPC UA
	Remark	Companion Spec V1.0 from firmware 2.20
	Function	Data interface (read result output), Service interface, PoE
	Data transmission rate	10/100 MBit/s
PROFINET		✓
	Function	PROFINET Single Port, Data interface (read result output)
	Data transmission rate	10/100 MBit/s
EtherNet/IP™		✓
	Function	Data interface (read result output)
	Data transmission rate	10/100 MBit/s
USB		✓
	Remark	USB 2.0
	Function	Service interface
Digital inputs		0
Digital outputs		0
Optical indicators		7 LEDs, multi-color (device status) 4 RGB LED (Process feedback)
Operator interfaces		Web server
Configuration software		SOPAS ET ¹⁾
Programming interface		Application-specific programming using the SICK AppStudio development environment
Memory card		microSD memory card (parameter cloning, data storage)

¹⁾ Another alternative is to generate your own configuration tools based on the SICK command language CoLa (e.g. in your own software or on PLC function blocks).

Ambient data

Electromagnetic compatibility (EMC)	EN 301489-3
Vibration resistance	EN 60068-2-64:2008-02
Shock resistance	EN 60068-2-27:2009-05
Ambient operating temperature	-25 °C ... +50 °C
Storage temperature	-40 °C ... +70 °C

Permissible relative humidity	90 %, Non-condensing
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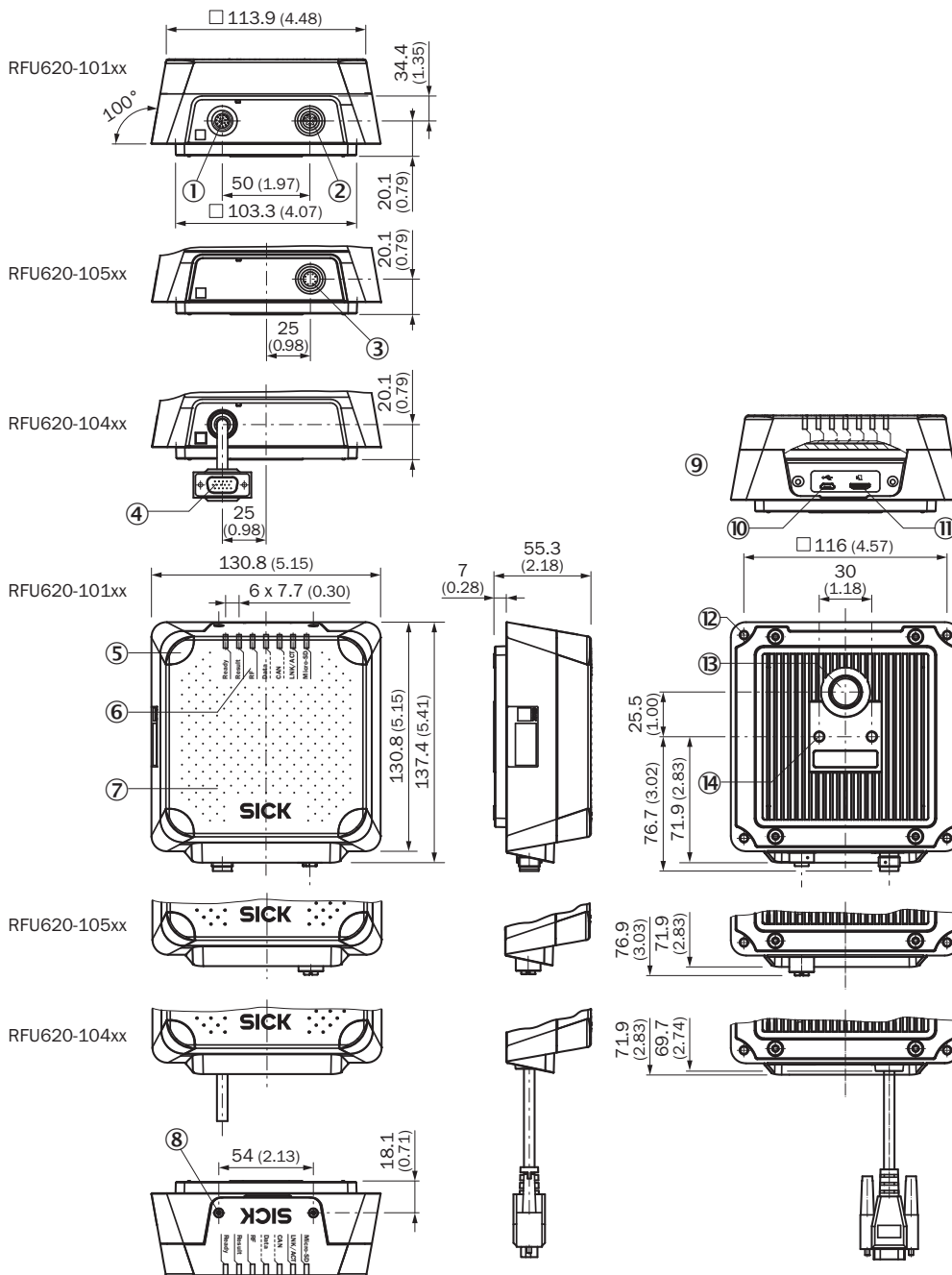
Certificates

China RoHS	✓
Profinet certificate	✓
Radio Approval certificate	✓
4Dpro	✓
RAIN RFID	✓

Classifications

ECLASS 5.0	27280401
ECLASS 5.1.4	27280401
ECLASS 6.0	27280401
ECLASS 6.2	27280401
ECLASS 7.0	27280401
ECLASS 8.0	27280401
ECLASS 8.1	27280401
ECLASS 9.0	27280401
ECLASS 10.0	27280401
ECLASS 11.0	27280401
ECLASS 12.0	27280401
ETIM 5.0	EC002998
ETIM 6.0	EC002998
ETIM 7.0	EC002998
ETIM 8.0	EC002998
UNSPSC 16.0901	52161523

dimensional drawing RFU62x

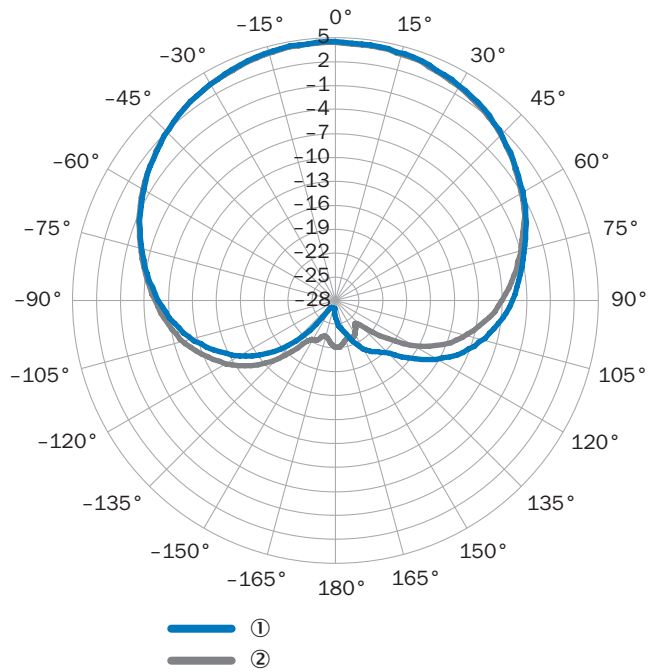


Dimensions in mm (inch)

- ① "Power/AUX/CAN/I/O" connection, 17-pin M12 male connector, A-coded
- ② "Ethernet" connection, 4-pin M12 female connector, D-coded
- ③ "Ethernet" connection, 8-pin M12 female connector, X-coded
- ④ "Power/HOST/AUX/CAN/I/O" connection, 15-pin D-Sub HD male connector, cable 0,9 m
- ⑤ 4 x LED, multi-colored (process feedback)
- ⑥ 7 x LED for status display
- ⑦ cover with integrated antenna
- ⑧ screw (Torx T8), captive (2 x), for side cover
- ⑨ side cover opened
- ⑩ USB socket, type Micro-B
- ⑪ Slot for microSD memory card
- ⑫ blind hole thread M5, 9 mm deep (4 x), for alternatively mounting

- ⑬ pressure compensation valve (ventilation element)
- ⑭ M6 blind tapped holes, 7 mm deep (2 x), for mounting

Radiation pattern



measured antenna gain in dBic at 868.5 MHz, RHCP (right-hand circularly polarized)

① Horizontal plane (azimuth)

② vertical plane (elevation)

Connection diagram EtherCAT®

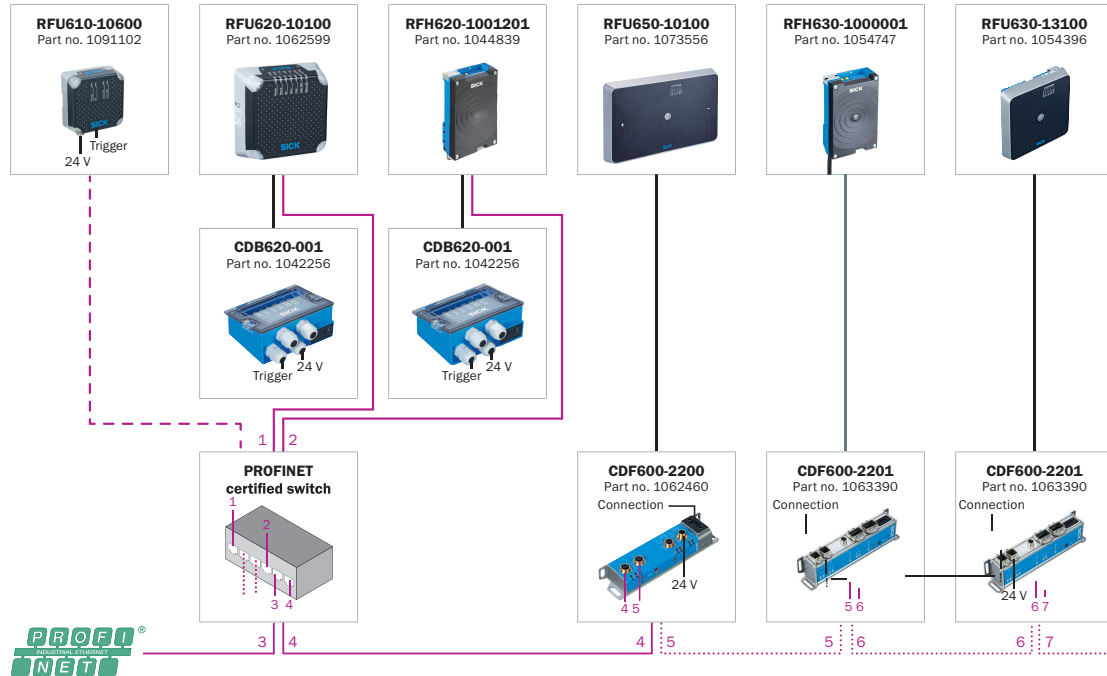
EtherCAT®



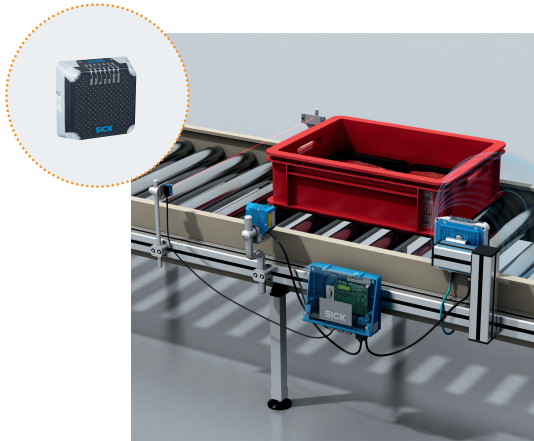
— Connecting cable (already present on device)
— EtherCAT® cable, 2 m (Part no. 2106159)

Connection diagram PROFINET IO/RT

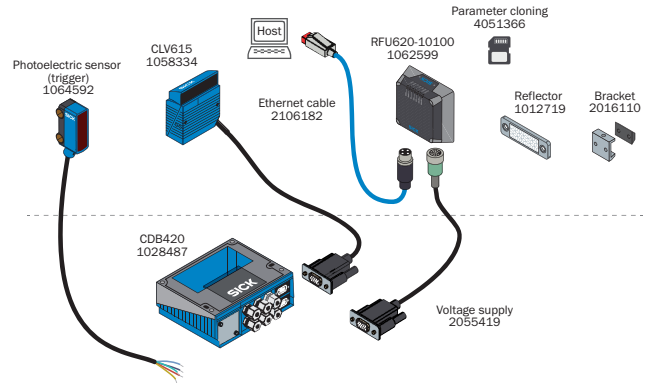
PROFINET



System construction



RFU62x



data combination of barcode and RFID

Overview SICK AppSpace



Recommended accessories

Other models and accessories → www.sick.com/RFU62x

	Brief description	Type	part no.
connectors and cables			
	• Connection type head A: Male connector, Micro-B, 4-pin, straight • Connection type head B: Male connector, USB-A, 4-pin, straight • Signal type: USB 2.0 • Cable: 2 m, 4-wire • Description: USB 2.0, unshielded	USB cable	6036106
Storage media			
	• Description: microSD memory card with 1 GB for industrial use	microSD memory card	4051366

	Brief description	Type	part no.
Mounting systems			
	• Description: Simple mounting bracket	Mounting bracket	2071067
RFID transponders			
	• Carrier frequency: 865 MHz ... 928 MHz • Memory capacity (EPC / user memory): 496/128 Bit (EPC / User Memory) • Dimensions (L x W x H): 18 mm x 122 mm x 2 mm	UHF Transponder, Rectangular, global	6088050

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:

Contacts and other locations –www.sick.com