

Distance	RFH505-1004301	RFH510-1004301
B	36 mm	60 mm
C	18 mm	30 mm
D	120 mm	180 mm
E	10 mm	10 mm
Tightening torque of fixing nuts	25 nm	70 nm

RFH515 (C44)

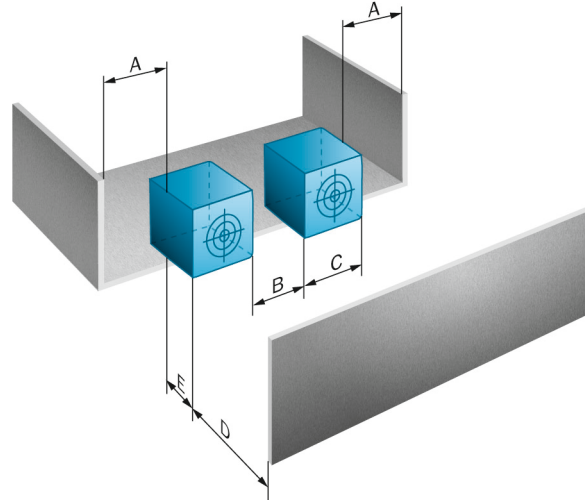


Figure 19: RFH515: distances required to prevent mutual interference with parallel mounting of several devices as well as from the environment

Distance	RFH515-1004301
A	40 mm
B	80 mm
C	40 mm
D	240 mm
E	10 mm ¹⁾

¹⁾ The required overrun of the device with non-flush installation is greater than the distance from the visible breaking edge at the top of the device to the outer device contour, see "Mounting the device", page 27.

12.4 Ambient data

Table 13: Technical data for RFH5xx: ambient data

	RFH505-1004301	RFH510-1004301	RFH515-1004301
Electromagnetic compatibility (EMC)	EN 301489-3 V1.6.1 (2013)		
Vibration resistance	IEC 60068-2-6:2007-12 (10 Hz to 55 Hz / 1 min / 5 min)		
Shock resistance	IEC 60068-2-27:2008-02 (30 gn / 11 ms/half-sine)		
Ambient temperature	- Operation: -25 °C ... +80 °C - Storage ¹⁾: -25 °C ... +80 °C		
Permissible relative humidity	0% ... 95%, non-condensing		

¹⁾ Storage conditions see "Storage", page 23.

12.5 Working range diagrams

RFH505, RFH510, RFH515: [see "Working range of the antenna", page 18.](#)

12.6 Dimensional drawing

RFH505, RFH510, RFH515: dimensions [see "Device view", page 15.](#)

13 Accessories



NOTE

Accessories and where applicable mounting information can be found online at:

- www.sick.com/RFH5xx
-

14 Annex

14.1 EU declaration of conformity/Certificates

The EU declaration of conformity and other certificates can be downloaded from the Internet at:

- www.sick.com/RFH5xx

14.2 Dimensional drawings (electronic)

Current dimensional drawings in various electronic formats can be downloaded online:

- www.sick.com/RFH5xx

14.3 Abbreviations used

General

CE	Communauté Européenne. European Community
CoLa-A	Command Language ASCII (SICK-specific protocol)
ES1	Electrical Energy Source Class 1 (Class 1 electrical energy source)
ESD	Electro-Static-Discharge. Electrostatic discharge
EMC	Electromagnetic Compatibility
FCC	Federal Communications Commission
I_{out}	Output current
LED	Light Emitting Diode. Light-emitting diode
LPS	Limited Power Supply
MAC	Medium Access Control
MTBF	Mean Time Between Failures
MTTF	Mean Time To Failure
MTTR	Mean Time To Repair
O	Output
PDF	Portable Document Format
RFH	Radio Frequency High frequency
RFID	Radio Frequency Identification
RSSI	Received Signal Strength Indication
SOPAS ET	SICK Open Portal for Application and Systems Engineering Tool. SICK software for computer (Windows) for device configuration.
SDD	SOPAS Device Description (Device description file, driver for SICK SOPAS ET software)
PLC	Programmable Logic Controller.
TID	Tag Identifier (Transponder Identification Number. Unique, unchangeable number from the IC manufacturer.
UID	Unique Identification code
V_{out}	Output voltage
V_S	Supply voltage

IO-Link

COM 1 – 3	SDCI communication mode (data transmission rate). COM 1 (4.8 kBit/s), COM 2 (38.4 kBit/s), COM 3 (230.4 kBit/s)
IODD	IO Device Description (device description device of an IO-Link device)
ISDU	Indexed Service Data Unit (service data object in IO-Link)
SDCI	Single-drop digital interface (official specification of IO-Link technology)

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