

Declaration letter

Dear Sir/Madam:

We, SICK AG (Merkurring 20, 22143 Hamburg, Germany), declare the following:

Model names	RFH505-1004301 RFH510-1004301 RFH515-1004301																																							
FCC ID	WRMRFH5																																							
IC	10066A-RFH5																																							
Difference	Schematic & PCB																																							
	All models share the same schematic and BOM. RFH505 and RFH510 use the same PCB while RFH515 has a dedicated PCB design due to the difference in form factor, which does not influence the RF behaviour. All 3 models have different PCBs for the magnetic loop antenna which results in different magnetic field strengths.																																							
	<ul style="list-style-type: none"> • RFH505: antenna radius 7mm • RFH510: antenna radius 12mm • RFH515: antenna radius 17.05mm 																																							
	Other properties																																							
	Table 2: Differences between the device variants																																							
	<table border="1"> <thead> <tr> <th>Feature</th> <th>RFH505-1004301</th> <th>RFH510-1004301</th> <th>RFH515-1004301</th> </tr> </thead> <tbody> <tr> <td>Write/Read range ¹⁾</td> <td>Max. 35 mm</td> <td>Max. 60 mm</td> <td>Max. 80 mm</td> </tr> <tr> <td>Optical indicators</td> <td colspan="2">4 x LEDs, identical display function for events during operation.</td> <td>4 x LEDs, each with different display function for events during operation with fixed assignment</td> </tr> <tr> <td>Housing design</td> <td colspan="2">Cylindrical</td> <td>Cubic</td> </tr> <tr> <td>Housing material</td> <td colspan="2">Metal and plastic</td> <td>Plastic</td> </tr> <tr> <td>Enclosure rating</td> <td colspan="2">IP67</td> <td>IP68</td> </tr> <tr> <td>Design</td> <td>M18</td> <td>M30</td> <td>C44</td> </tr> <tr> <td>Dimensions</td> <td>M18 x 63.5 mm</td> <td>M30 x 63.5 mm</td> <td>40 x 40 x 40 mm³</td> </tr> <tr> <td>Weight</td> <td>37 g</td> <td>87 g</td> <td>108 g²⁾</td> </tr> </tbody> </table>				Feature	RFH505-1004301	RFH510-1004301	RFH515-1004301	Write/Read range ¹⁾	Max. 35 mm	Max. 60 mm	Max. 80 mm	Optical indicators	4 x LEDs, identical display function for events during operation.		4 x LEDs, each with different display function for events during operation with fixed assignment	Housing design	Cylindrical		Cubic	Housing material	Metal and plastic		Plastic	Enclosure rating	IP67		IP68	Design	M18	M30	C44	Dimensions	M18 x 63.5 mm	M30 x 63.5 mm	40 x 40 x 40 mm ³	Weight	37 g	87 g	108 g ²⁾
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<p>1) With plane-parallel alignment of the RFID transponder (disk 50 mm, part number 6033781) to the device cap. Reading distance achieved depends on dimensions and quality of the transponder.</p> <p>2) Including clamping bracket</p>																																								

	RFH515-1004301	RFH510-1004301	RFH505-1004301
Appearance			

Regards,

SICK AG

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