



DATA SHEET

UHF Transponder, Rectangular, On-Metal, FCC

UHF transponders
RFID transponders

RFID TRANSPONDERS

UHF Transponder, Rectangular, On-Metal, FCC



ORDERING INFORMATION

Type	part no.
UHF Transponder, Rectangular, On-Metal, FCC	6086970

Further device versions and accessories at www.sick.com/UHF_transponders

DETAILED TECHNICAL DATA

FEATURES

Product segment	RFID transponders, RFID						
Product	UHF transponders						
Scope	Marking of metal parts that are exposed to high temperatures, liquids and chemicals, UV-resistant						
Frequency band	UHF (860 MHz ... 960 MHz)						
Carrier frequency	902 MHz ... 928 MHz						
Design	Rectangular						
Housing material	Plastic						
Ambient operating temperature	-35 °C ... +85 °C ¹⁾						
Storage temperature	-35 °C ... +85 °C						
Housing color	Gray						
IC type	Impinj M780						
Storage capacity	496/128 Bit (EPC / User Memory)						
IC data retention time	< 20 years						
Mounting method	Screws, Rivets						
Dimensions (W x H x L)	155 mm x 14.5 mm x 26 mm						
Weight	+ 31 g						
Reading range	<table border="0"> <tr> <td style="padding-right: 20px;">RFU61x</td> <td>120 cm ²⁾</td> </tr> <tr> <td style="padding-right: 20px;">RFU62x</td> <td>200 cm ²⁾</td> </tr> <tr> <td style="padding-right: 20px;">RFU63x/RFU65x</td> <td>1,800 cm ²⁾</td> </tr> </table>	RFU61x	120 cm ²⁾	RFU62x	200 cm ²⁾	RFU63x/RFU65x	1,800 cm ²⁾
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RFU62x	200 cm ²⁾						
RFU63x/RFU65x	1,800 cm ²⁾						

¹⁾ Max. temperature at which the RFID transponder can interact with the RFID read/write device.

²⁾ Typical value; actual value depends on environmental conditions.

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6086970



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SICK AT A GLANCE

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SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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