



DATA SHEET

UHF Transponder, Rectangular, On-Metal, global

UHF transponders
RFID transponders

RFID TRANSPONDERS

UHF Transponder, Rectangular, On-Metal, global



ORDERING INFORMATION

Type	part no.
UHF Transponder, Rectangular, On-Metal, global	6086968

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 liquids and chemicals						
Frequency band	UHF (860 MHz ... 960 MHz)						
Carrier frequency	865 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)	85 mm x 10 mm x 21 mm						
Weight	15.5 g						
Reading range	<table border="0"> <tr> <td style="padding-right: 10px;">RFU61x</td> <td>60 cm ²⁾</td> </tr> <tr> <td style="padding-right: 10px;">RFU62x</td> <td>130 cm ²⁾</td> </tr> <tr> <td style="padding-right: 10px;">RFU63x/RFU65x</td> <td>600 cm ²⁾</td> </tr> </table>	RFU61x	60 cm ²⁾	RFU62x	130 cm ²⁾	RFU63x/RFU65x	600 cm ²⁾
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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.

INSTRUCTION FOR INSTALLATION



- ① Leave the mounting surface in this area near to the transponder free. Free surface should be metal.
- ② Mounting on even metal surface with full contact of the underside of the transponder on the metal.

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/6086968



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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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