SICK.COM

DATA SHEET

UHF Transponder, Rectangular, On-Metal, global

UHF transponders
RFID transponders

SICK Sensor Intelligence

RFID TRANSPONDERS

UHF Transponder, Rectangular, On-Metal, global

ORDERING INFORMATION

Type	part no.
UHF Transponder, Rectangular, On-Metal, global	6086967

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

DETAILED TECHNICAL DATA

FEATURES

Product segment	RFID transponders
Product	UHF transponders
Scope	Marking of metal parts that are exposed to high temperatures, liquids and chemicals, UV-resistant
Specialty	High Temperature
Frequency band	UHF (860 MHz ... 960 MHz)
Carrier frequency	865 MHz ... 928 MHz
Design	Rectangular
Housing material	Thermoplastic
Ambient operating temperature	–40 °C ... +85 °C [1]
Storage temperature	–40 °C ... +85 °C
Application temperature	+ 125 °C, 60 min, 1 [2]
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)	51.5 mm x 10 mm x 47.5 mm

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

[2] Max. temperature the RFID transponder can withstand [maximum temperature; duration; cycles]. For optimal performance, the transponders should completely cool off before a new temperature cycle is started.

[3] Typical value; actual value depends on environmental conditions.

Weight	+ 22 g
Reading range	
RFU61x	70 cm [3]
RFU62x	150 cm [3]
RFU63x/RFU65x	700 cm [3]

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

[2] Max. temperature the RFID transponder can withstand [maximum temperature; duration; cycles]. For optimal performance, the transponders should completely cool off before a new temperature cycle is started.

[3] 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/6086967

SICK AG
WALDKIRCH
GERMANY
SICK.COM

SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

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

SICK

Sensor Intelligence