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DATA SHEET

UHF Transponder, Rectangular, On-Metal & High-Temp, FCC

UHF transponders
RFID transponders

SICK Sensor Intelligence

RFID TRANSPONDERS

UHF Transponder, Rectangular, On-Metal & High-Temp, FCC

ORDERING INFORMATION

Type	part no.
UHF Transponder, Rectangular, On-Metal & High-Temp, FCC	6084486

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 very high temperatures, liquids and chemicals
Specialty	High Temperature
Frequency band	UHF (860 MHz ... 960 MHz)
Carrier frequency	902 MHz ... 928 MHz
Design	Rectangular
Housing material	Highly temperature-resistant polymer
Ambient operating temperature	–40 °C ... +85 °C [1]
Storage temperature	–40 °C ... +85 °C
Application temperature	+ 220 °C, 30 min, 1,000 [2] + 250 °C, 30 min, 600 [2]
Housing color	Gray
IC type	Alien Higgs 9
Storage capacity	96/688 Bit (EPC / User Memory)
IC write cycle	≤ 200,000

[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.

IC data retention time	< 10 years
Mounting method	Screws, Rivets
Dimensions (W x H x L)	36.2 mm x 7.5 mm x 55 mm
Weight	26 g
Reading range	
RFU61x	50 cm [3]
RFU62x	100 cm [3]
RFU63x/RFU65x	500 cm [3]

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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/6084486

SICK AG
WALDKIRCH
GERMANY
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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

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