

SICK.COM



DATA SHEET

## HF transponder, coin

HF transponders  
RFID transponders

**SICK** Sensor Intelligence

## RFID TRANSPONDERS

## HF transponder, coin

## ORDERING INFORMATION

Type	part no.
HF transponder, coin	6033173

Further device versions and accessories at [www.sick.com/HF\\_transponders](http://www.sick.com/HF_transponders)



## DETAILED TECHNICAL DATA

## FEATURES

Product segment	RFID transponders
Product	HF transponders
Scope	Marking of non-metal parts that are exposed to very high temperatures, liquids and chemicals
Specialty	High Temperature
Frequency band	HF (13.56 MHz)
Design	Round
Housing material	PPS
Ambient operating temperature	-25 °C ... +90 °C <sup>1)</sup>
Storage temperature	-40 °C ... +120 °C
Application temperature	+ 130 °C, 50 h, 1 <sup>2)</sup> + 220 °C, 30 s, 1
Housing color	Black
IC type	Texas Instruments Tag-it HF-I
Storage capacity	2048 Bit (64 x 4 Byte) (User Memory)
IC data retention time	< 10 years
Mounting method	Recessed
Diameter	22 mm

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

<sup>2)</sup> 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.

<sup>3)</sup> Typical value; actual value depends on environmental conditions.

Weight	+ 1.6 g
Reading range	RFH505 2 cm <sup>3)</sup> RFH510 3 cm <sup>3)</sup> RFH515 4.5 cm <sup>3)</sup> RFH620 6.5 cm <sup>3)</sup> RFH630 11.5 cm <sup>3)</sup>
Shock resistance	IEC 68-2-27

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

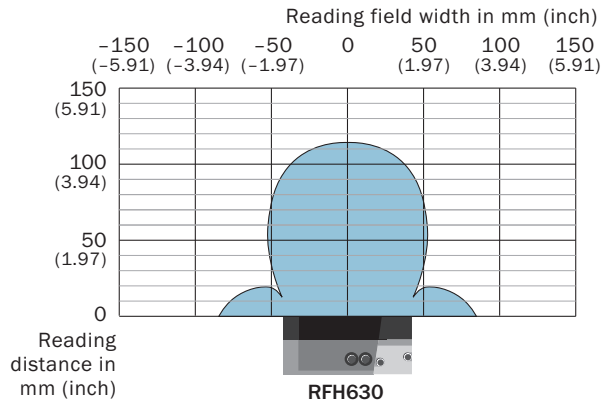
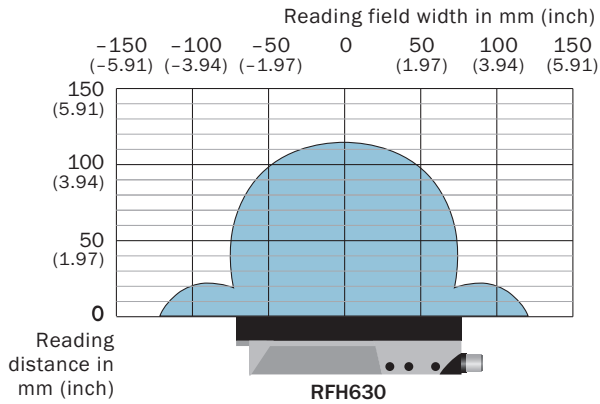
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**CERTIFICATES**

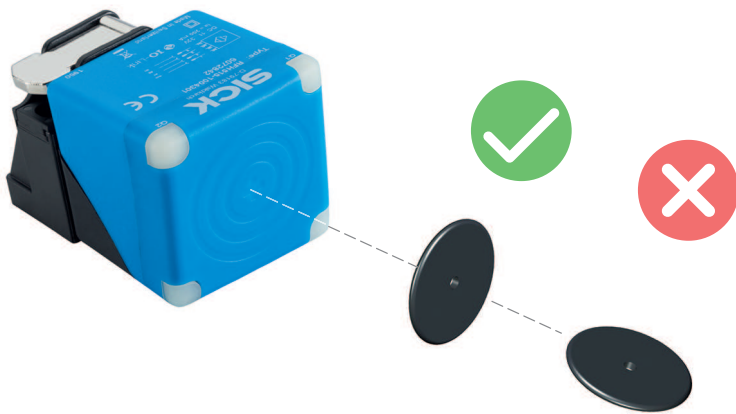
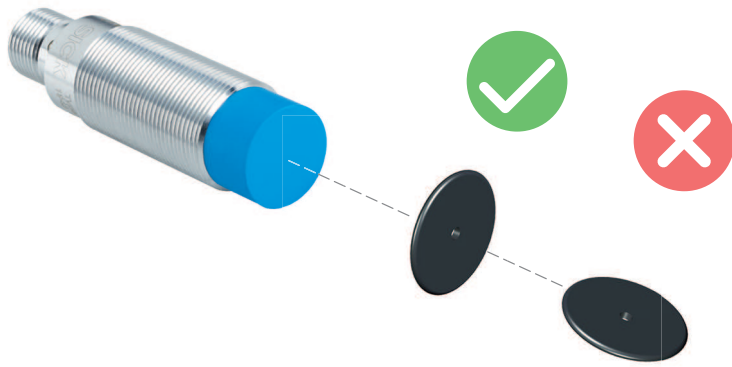
China RoHS	✓
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**READING FIELD DIAGRAM RFH63X**



■ Coin 22

INSTRUCTION FOR INSTALLATION



## INSTRUCTION FOR INSTALLATION



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/6033173](http://www.sick.com/6033173)



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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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