



HF Transponder, rectangular, on-metal

RFID transponders

RFID

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
HF Transponder, rectangular, on-metal	6039051

Other models and accessories → www.sick.com/RFID_transponders

Detailed technical data

Features

Type	Hardtag	
Frequency band	HF (13.56 MHz)	
Carrier frequency	13.56 MHz	
RFID standard	ISO/IEC 15693, ISO/IEC 18000-3 "Mode 1"	
Read range	RFH505	1.5 cm ¹⁾
	RFH510	2.5 cm ¹⁾
	RFH515	8 cm ¹⁾
	RFH620	5.5 cm ¹⁾
	RFH630	11 cm ¹⁾
IC type	NXP ICODE SLIX	
IC capacity	896 Bit (28 x 4 Byte)	
IC write cycle	≤ 100,000	
IC data retention time	< 10 years	
On Metal	✓ ²⁾	

¹⁾ Typical value; actual value depends on environmental conditions.

²⁾ For optimal performance the transponder must be mounted directly onto metal. The metal surface must be of at least the same size as the transporter.

Mechanics/electronics

Housing	PA 66 Silicone
Housing color	Brown
Enclosure rating	IP68
Weight	+ 2.5 g
Dimensions (L x W x H)	12.5 mm x 25 mm x 5 mm
Hole	2.3 mm
Design	Rectangular
Mounting method	Screws, riveting

Ambient data

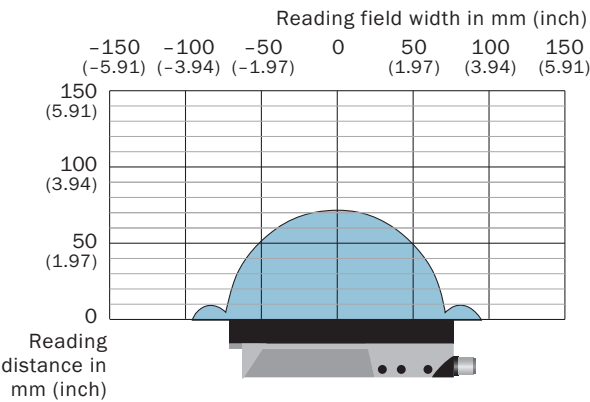
Ambient operating temperature	-25 °C ... +130 °C
Storage temperature	-40 °C ... +180 °C

Classifications

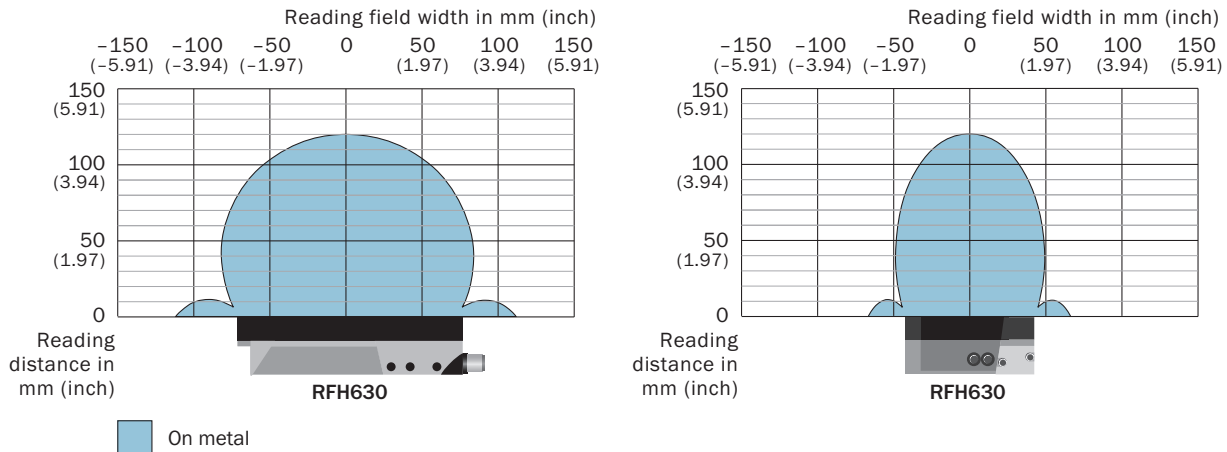
ECI@ss 5.0	27280402
ECI@ss 5.1.4	27280402
ECI@ss 6.0	27280402
ECI@ss 6.2	27280402
ECI@ss 7.0	27280402
ECI@ss 8.0	27280402
ECI@ss 8.1	27280402
ECI@ss 9.0	27280402
ECI@ss 10.0	27280402
ECI@ss 11.0	27280402
ETIM 6.0	EC002998
ETIM 7.0	EC002998
UNSPSC 16.0901	52161523

Reading field diagram

Reading field diagram RFH62x



Reading field diagram RFH63x



Recommended services

Additional services → www.sick.com/RFID_transponders

	Type	Part no.
Commissioning		
Product area: RFID Range of services: Inspection of connection, alignment, optimization of parameters of the RFU/RFH as well as tests, Setup of previously defined functions of reading configuration, data processing and network, interfaces and inputs and outputs Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses. Duration: Additional work will be invoiced separately	Commissioning RFU/RFH	1610018
Product, system, and software training		
Range of services: The training contents are geared toward the RFID read/write devices, Training format and location can be worked out in collaboration with SICK, SICK offers training courses for numerous target groups ranging from basic to expert levels	RFH/RFU training	1612233
Maintenance		
Product area: RFID Range of services: Inspection, analysis and restoring of defined functions, Checking and adjustment of reading configuration, data processing, network, interfaces and inputs and outputs as well as operating data Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses. Duration: Additional work will be invoiced separately	Maintenance RFU/RFH	1611424

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com