Product data sheet

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

RFID transponder

RFID

SICK
Sensor Intelligence.

Ordering information

Type	Part no.
UHF Transponder, Rectangular, On-Metal & High-Temp, ETSI	6084487

Other models and accessories ➜ www.sick.com/RFID_transponder

Detailed technical data

Features

Type	Hardtag
Frequency band	UHF (860 MHz ... 960 MHz)
Carrier frequency	865 MHz ... 868 MHz
RFID standard	EPCglobal UHF Class 1 Generation 2, ISO/IEC 18000-6 C
Read range	
RFU61x	50 cm [1]
RFU62x	100 cm [1]
RFU63x/RFU65x	500 cm [1]
Special features	On Metal, High Temperature [2]
IC type	Alien Higgs 9
Memory capacity (UII / user memory)	96/688 Bit
IC write cycle	≤ 200,000
IC data retention time	< 10 years

[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	Highly temperature-resistant polymer
Housing color	Gray
Enclosure rating	IP68
Weight	28 g
Dimensions (L x W x H)	55 mm x 36.2 mm x 7.5 mm
Hole	3.2 mm
Design	Rectangular
Mounting method	Screws, Rivets

Ambient data

Ambient operating temperature	–40 °C ... +85 °C [1]
Application temperature	+ 220 °C, 30 min, 1,000 [2]

[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.

	+ 250 °C, 30 min, 600 [2]
Storage temperature	–40 °C ... +85 °C

[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.

Classifications

ECLASS 5.0	27280402
ECLASS 5.1.4	27280402
ECLASS 6.0	27280402
ECLASS 6.2	27280402
ECLASS 7.0	27280402
ECLASS 8.0	27280402
ECLASS 8.1	27280402
ECLASS 9.0	27280402
ECLASS 10.0	27280402
ECLASS 11.0	27280402
ECLASS 12.0	27280402
ETIM 6.0	EC002998
ETIM 7.0	EC002998
ETIM 8.0	EC002998
UNSPSC 16.0901	52161523

Recommended services

Additional services ➜ www.sick.com/RFID_transponder

	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
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 • **Duration:** Additional work will be invoiced separately • **Travel expenses:** The prices do not include travel costs such as hotel, flight, travel time and expenses.	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