



On-metal transponder FCC disk on spacer

RFID transponders

RFID

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
On-metal transponder FCC disk on spacer	6051351

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

Detailed technical data

Features

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
IC type	NXP UCODE G2XM
IC capacity	240/512 Bit
IC write cycle	≤ 100,000
IC data retention time	< 10 years

Mechanics/electronics

Housing	PA 6
Housing color	Dark gray
Enclosure rating	IP68
Weight	30 g
Diameter	55 mm
Thickness	13 mm
Hole	5.3 mm

Ambient data

Ambient operating temperature	-20 °C ... +85 °C
Storage temperature	-20 °C ... +85 °C

Classifications

ECl@ss 5.0	27280401
ECl@ss 5.1.4	27280401
ECl@ss 6.0	27280401
ECl@ss 6.2	27280401
ECl@ss 7.0	27280401
ECl@ss 8.0	27280401
ECl@ss 8.1	27280401
ECl@ss 9.0	27280401
ETIM 6.0	EC002998

UNSPSC 16.0901

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Recommended services

Additional services → www.sick.com/RFID_transponders

	Type	Part no.
Warranty extensions		
• Product area: Identification solutions, Vision, Distance sensors, Detection and ranging solutions • Range of services: The services correspond to the scope of the statutory manufacturer warranty (SICK general terms and conditions of purchase), Long-term protection for calculable lump sum. • Duration: Five-year warranty from date of purchase.	Five-year extended warranty	1680671
Commissioning		
• Product area: RFID • Range of services: Inspection of connection, alignment, optimization of parameters of the RFU/RFH as well as verification tests, Setup of previously defined functions of reading configuration, data processing and network, interfaces and inputs and outputs • Documentation: Archiving of product parameters in a SICK database, Documentation of reading rate, Creation of a commissioning log • Duration: Additional work will be invoiced separately based on time spent • Note: The prices do not include expenses or costs for the travel time	Commissioning RFU/RFH	1610018
Training		
• Product family group: RFID • Range of services: SICK offers training courses for numerous target groups ranging from basic to expert levels, the training format and location can be worked out in collaboration with SICK • Note: A minimum and maximum number of participants is determined based on the training format, depending on the training format, content and location, a training course may take place over the course of one or more work days • Duration: The fixed price includes the specific training services agreed upon with the customer, the fixed price includes the work time required for the training services, the required work time depends on the range of services, Additional work will be invoiced separately based on time spent • Travel expenses: The prices include costs for the travel time and expenses, travel costs, such as flight or hotel expenses, are not included	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 • Documentation: Documentation of operating hours and archiving of parameters in a SICK database, Documentation of the read rate, for RFU log file with parameters such as RSSI, Tx-Pwr, CS and reading gate duration, Creation of a maintenance log • Duration: Additional work will be invoiced separately based on time spent • Note: The prices do not include expenses or costs for the travel time	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