



UHF Transponder, Rectangular, On-Metal, FCC

UHF transponders

RFID TRANSPONDERS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
UHF Transponder, Rectangular, On-Metal, FCC	6086975

Other models and accessories → 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 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	Polymer
Ambient operating temperature	-40 °C ... +85 °C ¹⁾
Storage temperature	-30 °C ... +85 °C
Application temperature	+ 150 °C, 4 h, Unlimited ²⁾
Housing color	Gray
IC type	Impinj M750
Storage capacity	96/32 bits (EPC / User Memory)
IC data retention time	< 20 years
Mounting method	Screws
Dimensions (W x H x L)	10.8 mm x 6 mm x 32 mm
Weight	3 g
Reading range	
	RFU61x 20 cm ³⁾
	RFU62x 40 cm ³⁾
	RFU63x/RFU65x 300 cm ³⁾

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.

Classifications

ECLASS 5.0	27280401
ECLASS 5.1.4	27280401
ECLASS 6.0	27280401
ECLASS 6.2	27280401

ECLASS 7.0	27280401
ECLASS 8.0	27280401
ECLASS 8.1	27280402
ECLASS 9.0	27280402
ECLASS 10.0	27280402
ECLASS 11.0	27280402
ECLASS 12.0	27280402
ETIM 5.0	EC002593
ETIM 6.0	EC002998
ETIM 7.0	EC002998
ETIM 8.0	EC002998
UNSPSC 16.0901	52161523

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