



# UHF Transponder, rectangular, on-metal, global

UHF transponders

RFID TRANSPONDERS

**SICK**  
Sensor Intelligence.



### Ordering information

Type	part no.
UHF Transponder, rectangular, on-metal, global	6068580

Other models and accessories → [www.sick.com/UHF\\_transponders](http://www.sick.com/UHF_transponders)

### Detailed technical data

#### Features

<b>Type</b>	Hardtag
<b>Frequency band</b>	UHF (860 MHz ... 960 MHz)
<b>Carrier frequency</b>	865 MHz ... 928 MHz
<b>RFID standard</b>	EPCglobal UHF Class 1 Generation 2, ISO/IEC 18000-6 C
<b>Read range</b>	
	RFU61x 50 cm <sup>1)</sup>
	RFU62x 100 cm <sup>1)</sup>
	RFU63x/RFU65x 600 cm <sup>1)</sup>
<b>IC type</b>	Impinj Monza 4E
<b>Memory capacity (UII / user memory)</b>	496/128 Bit
<b>IC write cycle</b>	≤ 100,000
<b>IC data retention time</b>	< 50 years

<sup>1)</sup> Typical value; actual value depends on environmental conditions.

#### Mechanics/electronics

<b>Housing material</b>	Plastic
<b>Housing color</b>	Gray
<b>Enclosure rating</b>	IP68
<b>Weight</b>	15.5 g
<b>Dimensions (L x W x H)</b>	21 mm x 85 mm x 10 mm
<b>Hole</b>	5 mm
<b>Design</b>	Rectangular
<b>Mounting method</b>	Screws, Rivets

#### Ambient data

<b>Ambient operating temperature</b>	-35 °C ... +85 °C <sup>1)</sup>
<b>Storage temperature</b>	-35 °C ... +85 °C

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

#### Classifications

<b>ECLASS 5.0</b>	27280401
<b>ECLASS 5.1.4</b>	27280401
<b>ECLASS 6.0</b>	27280401

<b>ECLASS 6.2</b>	27280401
<b>ECLASS 7.0</b>	27280401
<b>ECLASS 8.0</b>	27280401
<b>ECLASS 8.1</b>	27280402
<b>ECLASS 9.0</b>	27280402
<b>ECLASS 10.0</b>	27280402
<b>ECLASS 11.0</b>	27280402
<b>ECLASS 12.0</b>	27280402
<b>ETIM 5.0</b>	EC002593
<b>ETIM 6.0</b>	EC002998
<b>ETIM 7.0</b>	EC002998
<b>ETIM 8.0</b>	EC002998
<b>UNSPSC 16.0901</b>	52161523

## Instruction for installation



- ① Leave the mounting surface in this area near to the transponder free. Free surface should be metal.
- ② Mounting on even metal surface with full contact of the underside of the transponder on the metal.

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