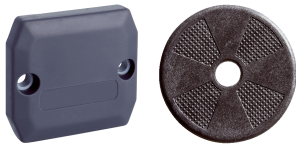


RFID transponders

Clever little helpers for solving identification tasks

RFID

SICK
Sensor Intelligence.



Technical data overview

Frequency band	HF (13.56 MHz) / UHF (860 MHz ... 960 MHz) (depending on type) (depending on type)
Weight	+ 0.6 g ... + 34 g (depending on type) (depending on type)

Product description

The RFID transponder (also called RFID tags) from SICK work on the basis of high frequency (HF) or ultra-high frequency (UHF). The tags work passively and use the energy of the RFID read/write device for data transmission. Both HF and UHF transponders follow a standard which is valid worldwide. The large range of transponders regarding dimensions, size, storage size, ambient operating temperature, mounting and read range enable use in many different applications. RFID tags can save up to 64 bits of data and can be identified up to a read range of 10 m. Together with the RFID read/write devices, they create reliable and future-proof identification solutions.

At a glance

- Passive transponders
- Compliance with standards
- Mounting on various materials possible, even on metallic surfaces
- No visual contact required
- Reading and writing
- Ambient temperature range from -40 °C to +230 °C

Your benefits

- Low price and maintenance-free
- Standard-compatible transponders enable future-proof solutions
- High flexibility thanks to the option of mounting on different materials and functions which make visual contact to the RFID read/write device unnecessary
- Variable use due to quick and easy overwriting of transponder data
- The rugged design enables reliable operation - even in tough industrial environments

Fields of application

- High-temperature applications in paint lines
- Identification of containers and pallets
- Identification of vehicles and trains

Ordering information

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

- **Carrier frequency:** 13.56 MHz
- **Enclosure rating:** IP68

On Metal	High Temperature	High Memory	IC capacity	Dimensions (L x W x H)	Diameter	Type	Part no.
✓	–	–	896 Bit (28 x 4 Byte)	12.5 mm x 25 mm x 5 mm	–	HF Transponder, rectangular, on-metal	6039051
				37 mm x 90 mm x 7 mm	–	HF Transponder, rectangular, on-metal	6047938
–	✓	✓	16,000 Bit (250 x 8 Byte)	–	30 mm	HF transponder, disk	6043514
					50 mm	HF transponder, disk	6042212
		–	2048 Bit (64 x 4 Byte)	–	22 mm	HF transponder, coin	6033173
			2528 Bit (79 x 4 Byte)	–	50 mm	HF transponder, disk	6033781
				21.7 mm	4 mm	HF transponder, glass	6039237
			896 Bit (28 x 4 Byte)	–	16 mm	HF transponder, coin	6041592
					30 mm	HF transponder, disk	6034740
				6.5 mm x 51 mm x 51 mm	–	HF transponder, square, high-temp	6060918
		–	896 Bit (28 x 4 Byte)	–	22 mm	HF transponder, disk	6052179
					30 mm	HF transponder, disk	6051701
				14 mm x 7 mm	7 mm	HF transponder, cylinder	6067993

- **Carrier frequency:** 13.56 MHz
- **Enclosure rating:** IP67

IC capacity	Dimensions (L x W x H)	Diameter	Type	Part no.
896 Bit (28 x 4 Byte)	30 mm x 5 mm	5 mm	HF transponder, cylinder	6044368

- **Carrier frequency:** 13.56 MHz
- **IC capacity:** 896 Bit (28 x 4 Byte)

Dimensions (L x W x H)	Type	Part no.
18 mm x 36 mm x 0.42 mm	HF transponder, paper label	6052794
49 mm x 81 mm x 0.42 mm	HF transponder, paper label	6037763
53.98 mm x 85.6 mm x 0.76 mm	HF transponder, ISO card	6037848

- **Carrier frequency:** 865 MHz ... 928 MHz

High Temperature	IC capacity	Dimensions (L x W x H)	Type	Part no.
✓	256/512 Bit	70 mm x 110 mm x 0.42 mm	UHF Transponder, rectangular, high-temp, global	6052355
	96/240 Bit	70 mm x 110 mm x 0.42 mm	UHF Transponder, rectangular, high-temp, global	6049636
-	128/512 Bit	53.98 mm x 85.6 mm x 0.76 mm	UHF Transponder, ISO-card, global	6051820
		73 mm x 14 mm x 0.3 mm	Special label	6054385
	448/2048 Bit	27 mm x 97 mm x 0.2 mm	UHF Transponder, label, global	6073284
	496/128 Bit	11.5 mm x 93 mm x 0.2 mm	UHF Transponder, PET label, global	6065191
		15 mm x 97 mm x 0.2 mm	UHF Transponder, paper label, global	6070051

- **Carrier frequency:** 865 MHz ... 868 MHz

High Temperature	IC capacity	Dimensions (L x W x H)	Type	Part no.
✓	496/128 Bit	80 mm x 35 mm x 1.2 mm	UHF Transponder, label, ESD, on-metal, ETSI	6077157

- **Carrier frequency:** 865 MHz ... 928 MHz
- **Enclosure rating:** IP68

On Metal	High Temperature	High Memory	IC capacity	Dimensions (L x W x H)	Type	Part no.
✓	✓	-	128/512 Bit	47.5 mm x 51.5 mm x 10 mm	UHF Transponder, rectangular, on-metal, global	6052346
	-	✓	240/64,000 Bit	8 mm x 65 mm x 45 mm	UHF Transponder, rectangular, on-metal & high memory, global	6061389
		-	128/512 Bit	27 mm x 27 mm x 6 mm	UHF Transponder, square, on-metal, global	6052186
			496/128 Bit	21 mm x 85 mm x 10 mm	UHF Transponder, rectangular, on-metal, global	6068580
-	-	-	128/512 Bit	18 mm x 122 mm x 2 mm	UHF Transponder, rectangular, global	6068184

- **Carrier frequency:** 865 MHz ... 868 MHz
- **Enclosure rating:** IP67

On Metal	High Temperature	High Memory	IC capacity	Dimensions (L x W x H)	Type	Part no.
✓	✓	✓	128/8192 Bit	31.1 mm x 33.7 mm x 6 mm	UHF Transponder, rectangular, on-metal & high memory, ETSI	6066560

- **Carrier frequency:** 902 MHz ... 928 MHz
- **Enclosure rating:** IP67

On Metal	High Temperature	High Memory	IC capacity	Dimensions (L x W x H)	Type	Part no.
✓	✓	✓	128/8192 Bit	31.1 mm x 33.7 mm x 6 mm	UHF Transponder, rectangular, on-metal & high memory, FCC	6066545

- **Carrier frequency:** 865 MHz ... 928 MHz
- **Enclosure rating:** IP69K

On Metal	High Memory	IC capacity	Dimensions (L x W x H)	Type	Part no.
✓	✓	160/3,328 Bit	11 mm x 41 mm x 5.15 mm	UHF Transponder, rectangular, on-metal & high memory, global	6054025

- **Carrier frequency:** 865 MHz ... 868 MHz
- **Enclosure rating:** IP68
- **On Metal:** ✓

High Temperature	IC capacity	Dimensions (L x W x H)	Type	Part no.
✓	96/512 Bit	12.8 mm x 31.7 mm x 4.97 mm	UHF Transponder, rectangular, on-metal, ETSI	6070746
		36.3 mm x 51 mm x 7.5 mm	UHF Transponder, rectangular, on-metal & high-temp ETSI	6060472
–	≤ 448/640 Bit	26 mm x 155 mm x 14.5 mm	UHF Transponder, rectangular, on-metal, ETSI	6061180

- **Carrier frequency:** 902 MHz ... 928 MHz
- **Enclosure rating:** IP68
- **On Metal:** ✓

High Temperature	IC capacity	Dimensions (L x W x H)	Type	Part no.
✓	96/512 Bit	12.8 mm x 31.7 mm x 4.97 mm	UHF Transponder, rectangular, on-metal, FCC	6070747
		36.3 mm x 51 mm x 7.5 mm	UHF Transponder, rectangular, on-metal & high-temp FCC	6053159

High Temperature	IC capacity	Dimensions (L x W x H)	Type	Part no.
-	128/512 Bit	26 mm x 155 mm x 14.5 mm	UHF Transponder, rectangular, on-metal, FCC	6060819

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