RFID ID Badges / Proximity Cards

- Variable memory sizes based on inlay type
- Read distance 2.5 inches to 20 feet depending on model
- On-site or off-site printing
- Slots or holes are available for easy attachment

Description

Radio Frequency Identification (RFID) tag technology can be used not only to identify and track objects but also to track people. This proximity card/ID badge is made of sturdy PVC and works seamlessly with standard UHF Gen 2 systems.

It can be used to identify employees, contractors, vendors, and others in government buildings, military bases, hospitals, banks, credit card companies, insurance companies, in fact, all businesses and institutions that work with sensitive information or significant sums of money. Proximity cards may also be a suitable choice when selecting ID cards for students and school employees.

Proximity Card

Embedded in each card is an RFID tag. A proximity card reader positioned between 2.5 inches and 20 feet (depending on the model chosen) receives a signal from the tag and grants or denies access accordingly. Like contactless smart cards, proximity cards can have new information written onto them.

Many organizations restrict entry to corporate facilities and assets. Proximity cards provide ID card security while allowing fast, secure access.

Custom RFID ID Cards

The SM-ID badge can be custom-printed. Our RFID cards work with a variety of printer systems and ID software packages. We can also pre-encode and pre-print your ID cards and ship them to your offices. Today’s ID printers work digitally and offer a host of benefits over their predecessors, such as improved appearance.

ID card systems incorporate easy-to-use software with clean templates and fully customizable options. Drag and drop digital employee photos and company logos onto assorted backgrounds to create your desired look. Add text such as safety messages. Choose a color scheme and template, or do a completely custom creation. Frick can provide the ID card software package that works best for your needs.

Read More

More About RFID Badges and Proximity Cards

As shown, RFID badges are an integral part of modern access control management and offer a seamless way to grant access to secure locations. Unlike traditional magnetic stripe cards — which require physical swiping — RFID technology enables users to unlock doors with a simple scan, improving speed and reliability for door access control systems.

Proximity cards paired with RFID technology support a wide range of applications beyond just door entry. For instance, they can integrate with time clock systems to allow businesses to track employee attendance accurately.

Additionally, each RFID badge can be customized with a site code or facility code, which further strengthens security by tying the card to specific systems or locations. This customization helps prevent unauthorized duplication, as only the correct combination of card format and codes will grant access within the door access control system.

RFID badges and proximity cards are also available in different configurations. Some options include standard proximity cards for close-range use and ultra-high frequency variants for environments requiring extended read ranges.

By replacing outdated magnetic stripe cards with RFID-enabled systems, companies can streamline access control management. Whether for a single entry point or multiple secured areas, our RFID badges provide

a versatile, efficient, and secure way to manage facility access.

Call William Frick & Company Today

Interested in learning more about our RFID badges, proximity cards, and full line of safety products? Reach out to William Frick & Company today for further information and to place an order.

Sizes:

Type	Length	Width
CR-80 CR80	3.4″	2.1″
CR100 CR-100	3.9″	2.6″
ID-1	3.4″	2.1″

Additional information

Model Number	WF-SM-ID RFID ID Badge
Applications	Identification Labeling
Size	3.4” x 2.1” x 0.041”
Water Resistance	Excellent
Solvents Resistance	Good
Abrasion Resistance	Fair
Impact Resistance	Good
Shelf Life	Completely Stable, Stored at 70F and 50% Relative Humidity

RFID Performance

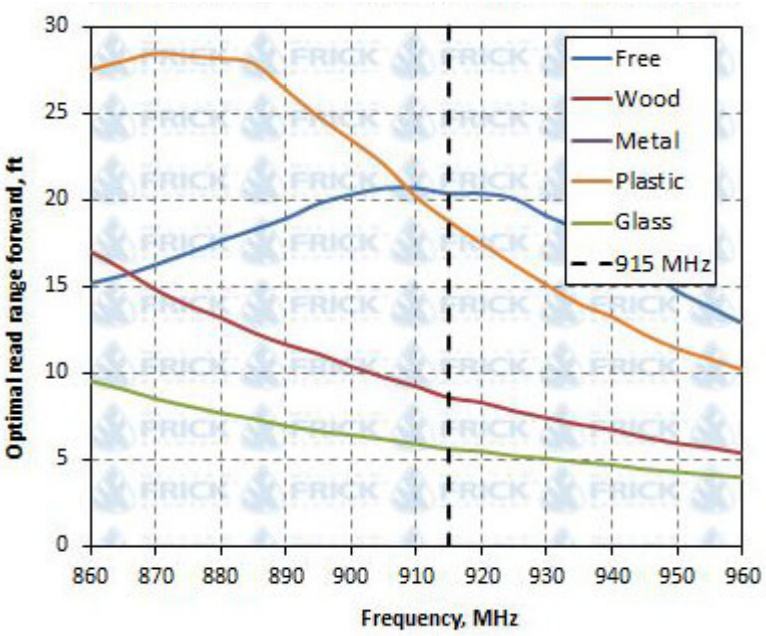
RFID Protocol	UHF EPC Class 1 Gen 2; ISO 18000-6C
Tag Type	Passive Read/Write
Frequency Range	860 – 960 MHz (Global)
EPC Memory	96 bits
IC	Impinj Monza 3

*Other single record and dual record chips available.

Tested Polarization:

Tag performance was experimentally measured in an anechoic chamber with a known set of experimental variables. The antenna used for measurements was linearly polzarized and of monostatic configuration. The direction of tested polarization is as follows.

Optimal Read Range* on Different Material Surfaces:



*Tag performance was measured free of material influence. Actual read ranges may differ depending on conditions such as environment, tag placements, hardware, etc.