D8224 5 Volt Mini-Proximity Card Reader

Product Description

The D8224 5 Volt Mini-Proximity Reader is plug compatible to existing Wiegand readers. This means that an existing Wiegand style system can be upgraded to proximity capability without additional wiring or power supplies. The reader contains both an antenna and controller providing the interface to the D8112A access control system using the Wiegand Interface (Radionics D8210) and is designed to mount to door frames or mullions.

The reader generates a low-frequency RF magnetic field. When a D8236 Access Control Card comes within range, the card is powered up by the voltage induced in the magnetic field, causing the card to transmit its unique code to the reader. The red LED on the reader flashes green indicating that the D8236 card number has been successfully read.

The reader decodes the signal, translates it into a digital format and transmits the ID number to the D8112A access control system through the Wiegand Interface (D8210). Final access decisions are made by the D8112A access control system. The reading process takes less than one fifth of a second.

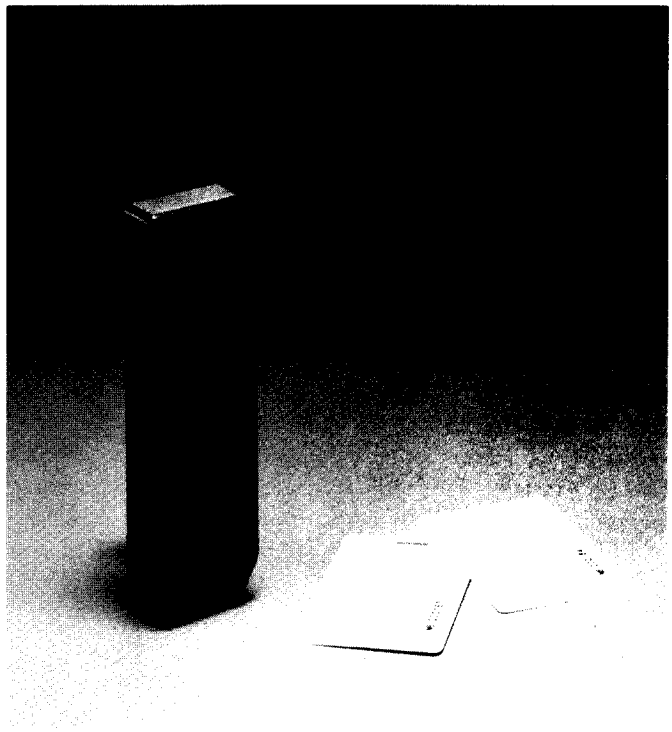
Radionics proximity products are engineered for ease of installation and service, plus long life and compatibility with existing security equipment. The reader enclosure is designed to withstand harsh environments. Cable connections are made with common multi-conductor cables - no coaxial cable or tuning is required. The reader can be mounted on any surface, including metal, providing the installer with many options when choosing the best location.

Features

5 Volt Power
Allows easy replacement of a Wiegand reader, receiving power directly from the D8210 Wiegand Interface. This reduces the cost of upgrading your system.

Built In Tests
At power up of the reader, an internal self test routine checks the system configuration, verified set up and identifies internal or external control of the LED and beeper and initializes the EPROM.

Low Power Consumption
5 VDC with average Wiegand current draw of 40 mA.



Indoor/outdoor Design
The D8224 Mini-Proximity Reader is sealed in rugged, weatherized polycarbonate to withstand harsh environments and provide a high degree of vandal resistance allowing reliable performance everywhere. The reader is a potted assembly, therefore the installer must coat terminals after installing wiring to maintain weatherizing.

Mullion Mounting
The D8224 Mini-Proximity Reader is designed to be unobtrusive and to mount directly on metal such as door mullions.

Audible Response
A beeper is activated to indicate a positive read of the proximity card.

Easily Interfaced
The D8224 Mini-Proximity Reader interfaces with the existing D8112A access control system using the D8210 Wiegand Interface. D8224 readers communicate in 26-Bit Wiegand format.

Security
The D8224 Mini-Proximity Reader recognizes over 137 billion codes.

Listings

FCC and DTI Certified
Approved in the U.S. and U.K. for use without site licenses.

Warranty

D8224 readers are warranted against defects in materials and workmanship for 15 months from date of shipment.

D8224 5 Volt Mini-Proximity Card Reader Specifications

Read Range (Typical)
4" (102 mm)

Dimensions
6" x 1.7" x 1"

(15.2 x 4.3 x 2.5 mm)

Weight
6.6 oz. (185 gm)

Current Requirements

Current (DC)	Wiegand
Average	40 mA
Peak	80 mA

Reading Time
Wiegand (26 bit) 175 ms

Time required to power up D8236 Proximity Card, process return signal and complete output of formatted number through appropriate interface.

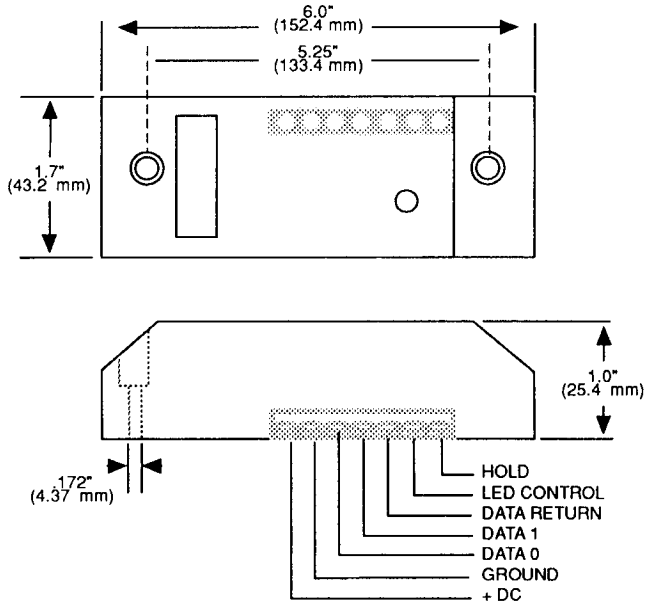
Enclosure Material
Polycarbonate U.L.94

Transmit Frequency
125 kHz

Power supply
5 VDC±10%. Linear Power supplies are recommended.

Certification
DTI (MPT 1337), United Kingdom

FCC Part 15, United States



D8224 Mini-Proximity Reader

Operating Temperature
-22 to 150° F (-30 to 65° C)

Operating Humidity
0 - 95% non-condensing

Cable Distance
Wiegand Interface: 500 feet (150mm).

Recommenced cable: Belden 8786 (22 AWG) or equivalent.

Color
Charcoal Gray

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