

# Installation Sheet (Wiegand Output Only) – 004-97-A

## Sentinel-Prox Mr-1824 Reader



### Reader Description

Last Update: April 9, 1999

The Sentinel-Prox MR-1824 Reader is a radio frequency identification (RFID) Reader used in Access Control System. The Reader consists of a transmit/receive antenna, associated electronics, and a polycarbonate housing which encloses the antenna and the electronics. The inside of the polycarbonate housing is potted with a two-part epoxy to protect the antenna and the electronics against outside environment.

### Parts List

a.) Installation sheet, P/N: 004-97-A	QTY=1
b.) Sentinel-Prox MR-1824 Reader, P/N: 004-20-A	QTY=1
c.) #6-32 x 1" Thread-cutting screw, Type 23, P/N: 616PPN23ZP	QTY=4
d.) Screw hole plug, P/N: 004-27-A	QTY=5 (1 spare)

### Installation Procedure

- 1.) Position the Reader (Item b on Parts List) at desired mounting position on the mounting surface. Drill four 7/64 (0.109)-inch holes for mounting the Reader and one 11/16 (0.688)-inch clearance hole for clearing the cable and the straight-thru fitting according to Figure 1.
- 2.) Connect the Reader and the Panel together according to Figure 2.
  - a. Mount the Reader to the mounting surface with the provided #6-32x1" Thread-cutting screws, Type 23 (Item c on Parts List). Insert the Screw hole plugs (Item d on Parts List) into the screw clearance holes to conceal the screws. **Note: screw hole plugs are designed for one-time use only! Once the plugs are seated, they can not be removed without damaging the plugs.**

### Product Specifications

- 1.) Read Range (Metal Compensated)

1 5VDC (280mA peak)	Up to 19 inches (48 cm)
1 12VDC (700 mA peak)	Up to 25 inches (64 cm)
- 2.) Characteristics

1 Indoor and Outdoor	UL Listed
1 Operating Temperature Range	-35° C to 65° C (-31° F to 150° F)
1 Operating Humidity	0 to 95% non-condensing
- 3.) Operating Parameters

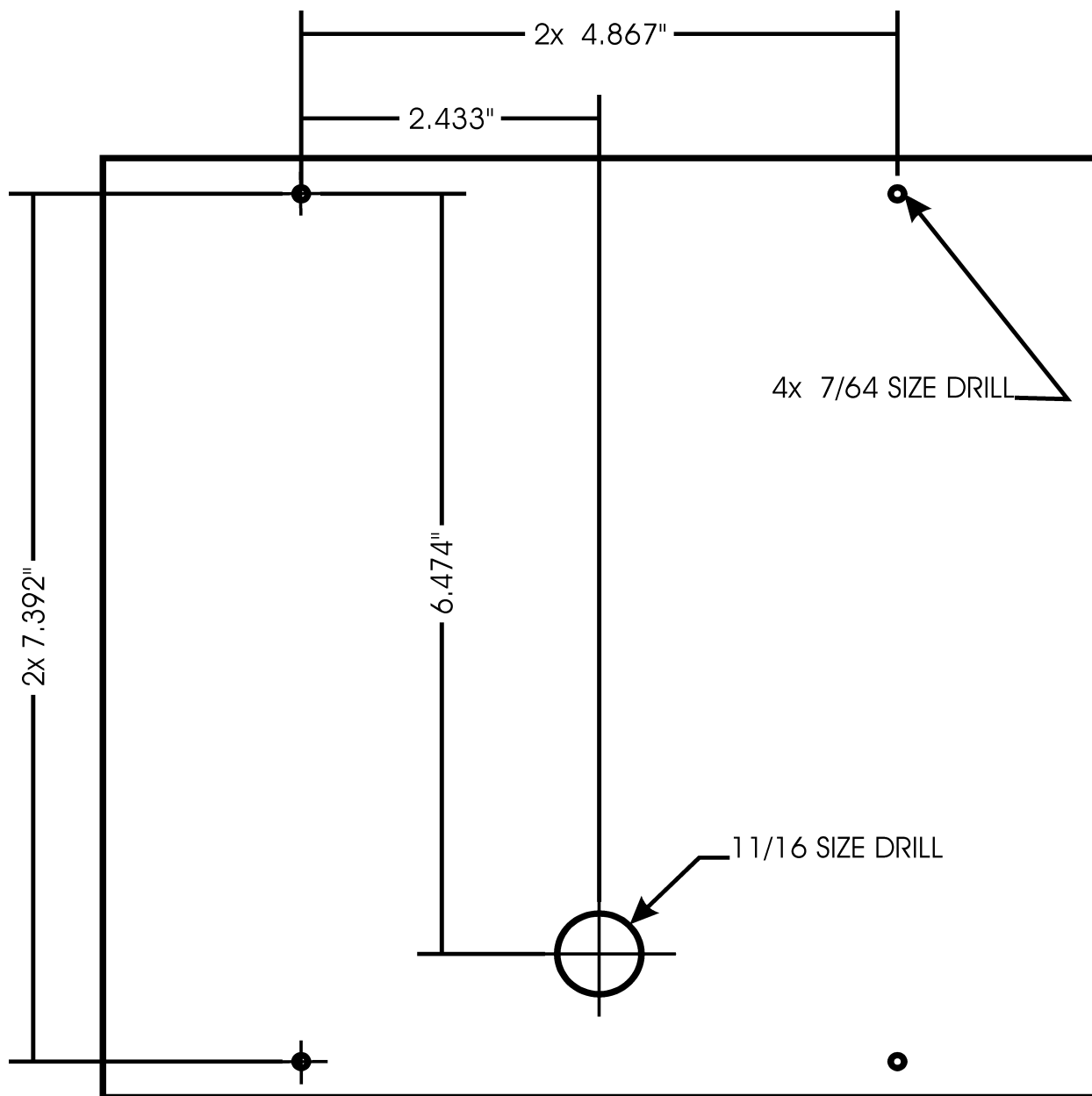
1 Excitation Frequency	125kHz
1 Wiegand Output (Standard)	26 bits
1 Wiegand Output (Optional)	Up to 56 bits

Note: For installation using RS-232 output or combining Wiegand/RS-232, please refer to Operation & Installation Manual, P/N: 004-98-A. This manual can be downloaded directly from our web page.

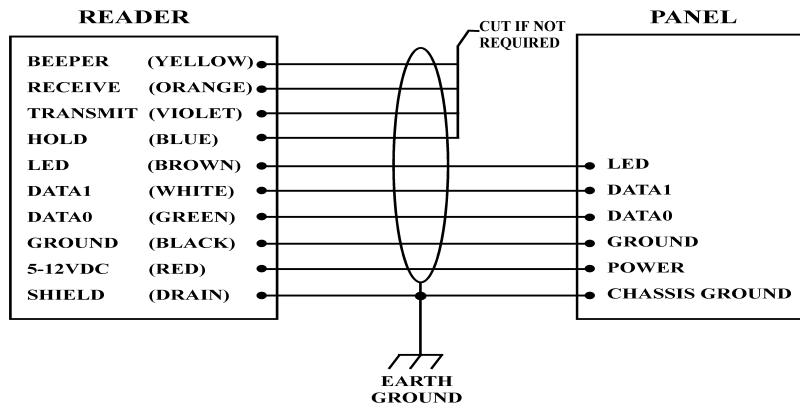
Do not cycle the power supply ON and OFF in rapid succession. Each power supply has its unique "decay" characteristics. Turning the power supply ON and OFF in rapid succession can cause the Microcontroller to lock-

up, due to improper initialization. Always turn the power supply OFF and count 10 seconds before turning ON again.

NOTE: SEE OUR WEB PAGE <http://www.awid.com> FOR DETAIL INSTALLATION INSTRUCTION OR FORWARD ALL WRITTEN QUESTIONS TO [service@awid.com](mailto:service@awid.com) (ALL QUESTIONS WILL BE ANSWERED WITHIN 24 HOURS) OR CALL US AT **1-800-369-5533** FROM 8 A.M. TO 8 P.M. EASTERN STANDARD TIME FOR TECHNICAL ASSISTANCE.



**FIGURE 1: HOLES DIMENSIONS**



**FIGURE 2: WIEGAND FORMAT WIRING DIAGRAM**