

proxy

User Manual and Installation Guide

Proxy Mobile Reader Nano

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Introduction

The Proxy Mobile Reader Nano is installed between a controller and an access control reader. When users present their credential (card, key fob, fingerprint, etc.) to the reader, the Nano passes the Wiegand command to the controller. The access control system then grants or denies access to the secure location.

The Mobile Reader Nano is also BLE enabled. When users present their phones, enabled with the Proxy ID app, the Nano passes the Wiegand command to the controller. The access control system then grants or denies access to the secure location.

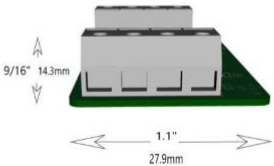
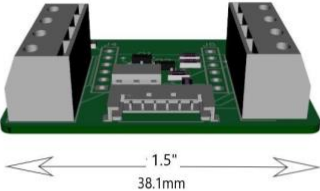
Installation Details

Wiring methods shall be in accordance with the National Electrical Code (ANSI/NFPA70), all local codes, and the authorities having jurisdiction.

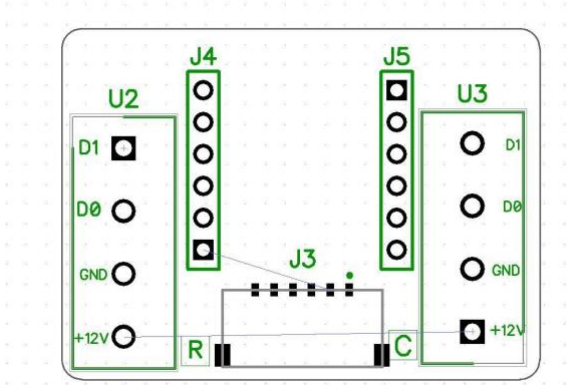
Parts List

- Proxy Nano Board -1 ct.
- Double-Sided Mounting Tape -1 ct.

Dimensions



Wiring Instructions



R = Reader connector
 C = Controller connector

Connect the Power (+12VDC/GND) and Wiegand (D0/D1) lines from the reader to the R connector.

Connect the Power (+12VDC/GND) and Wiegand (D0/D1) lines to the controller from the C connector.

Note that there is no required orientation of the board. Only that the reader output must be connected to one end of the board and the controller input must be connected to the other.

Installation Steps

1. Open the enclosure and remove the reader assembly.
2. Locate the wiring harness and identify the Power/GND and D0/D1 wires.
3. Connect the Mobile Reader Nano to the existing wiring per the **Wiring Instructions**.
4. Locate sufficient space to mount the Mobile Reader Nano next to the existing reader such that both will fit back into the turnstile cavity and the antenna can reach to the glass faceplate.
5. Attach the antenna to the top / front of the glass faceplate at the closest location to where users present their phones.
6. Secure the Mobile Reader Nano module into the scanner assembly using the provided double sided mounting tape.
7. Re-insert / secure the reader assembly into the enclosure.

Power Up and Testing Steps

1. Connect to power.
 - 1.1. View the Nano name in the “Proxy ID” app as a New Device.
2. Provision Nano and Sync to Access Control System.
 - 2.1. Refer to the Provisioning Guide to provision to your Proxy organization and sync to the local Access Control System.
3. Place the phone running the “Proxy ID” app within proximity of the external antenna and confirm that the access point is activated.

Technical Specifications

1. All cabling and wiring shall be UL Listed or UL Recognized.
2. All readers shall be powered by a UL Listed power-limited power supply, or power-limited output from a UL Listed control panel.
3. Cable Wiegand – 22AWG shielded security cable
4. Linear DC Power Supply (3.3–13VDC, 10mA)
5. Operating Temp Range-25oCto75oC
6. Dimensions 1.5”(38.1mm) x 1.1”(27.9mm) x 9/16”(14.3 mm)
7. External Antenna
 - Operating Range: 2400~2500MHz / 4900~5900MHz
 - Efficiency: 90%
 - Bandwidth (VSWR: 2.0 max.) 140 MHz / SWR < 2.0
 - Polarization: Linear
 - Radiation: Omni directional
 - Antenna Gain: 4DBi
 - Impedance: 50 ohm
 - Cable: 100mm / 4" long
 - Antenna: 40mm x 8mm / 1.6" x 0.3"
 - Weight: 0.7g

The Mobile Reader Nano operates at very low current ratings. If operating with the need for more precise ratings of low current draw, please contact Proxy directly.

<u>Voltage (V)</u>	<u>Peak Current (mA)</u>
5	< 10
12	< 10

Mobile Reader Nano Installed in a Turnstile Or Other Enclosure

The optimal placement of the external antenna is against the glass pane where the current access control reader exists. These glass panes are typically designed to allow for radio signals to pass through with minimal interference, which is preferred for the BLE signal from the Nano for connection to the Proxy ID mobile app.

The recommended mode of operation of the Nano is such that the phone must be placed within inches of the antenna in order to activate the mobile credential. For this reason, it is recommended that the Nano external antenna is adhered at a location that is in close proximity to the place where users would also tap their RFID / access control cards.

By following these guidelines, use of the Nano will be more intuitive to users accessing with their mobile phones running the Proxy app.