



ALLTHENTICATE

All In Install Guide

This installation guide will walk through how to install an Allthenticate Smart Door Reader (All In) with an electromagnetic lock.

The Allthenticate All In is to be installed on the **inside** of the desired door and inside of the building (on the secure side).

If you have any questions, you can email us at help@allthenticate.com

System Compatibility

Supports supplementary legacy Wiegand-based readers

Technical Specifications



Dimensions

In Wall

Depth: 1.3" / 3.3 cm
Width: 2.0" / 5.1 cm
Height: 2.9" / 7.3 cm

Faceplate

Height: 4.6" / 11.7 cm
Width: 2.8" / 7.1 cm
Depth: 0.2" / .5 cm (5 mm)



Power

Power (AC)

Input: 100-240 VAC (0.55A 50-60Hz)
Output (to strike and reader): 12VDC 600 mA

Power (PoE)

Input: ???
Output (to strike and reader): 12VDC 600 mA

Power (DC)

Input: 5.5-36 VDC
Output (to strike and reader): Equivalent to *Input*

Setups Supported: • Fail safe • Failsecure • Parallel install with existing systems

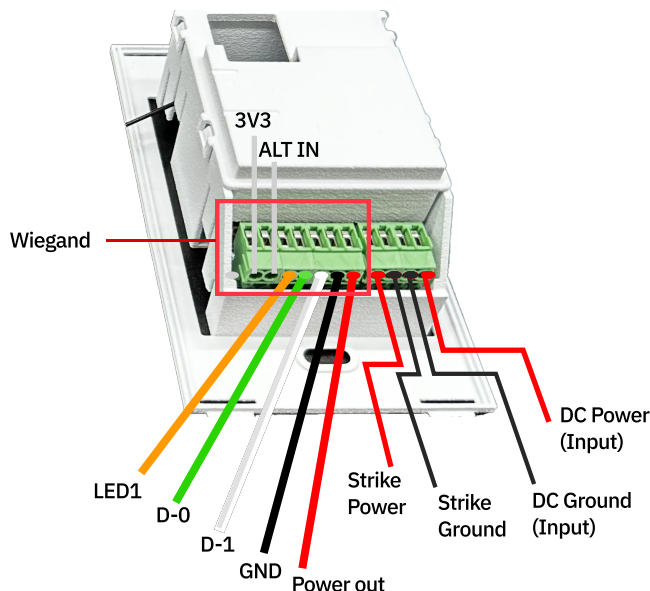
Installing the Smart Door Reader

There are 3 distinct configurations, which are outlined below:
Electric Strike, Electromagnet, and co-existing with a pre-installed Electromagnet

If the PoE or AC options are used for the power, the power output is going to be **800 mA @ 12 VDC**, otherwise the the power budget is the same as the input voltage, less our power draw of **130 mA @ 12 VDC**

💡 24 VDC is also supported when powering externally, with the same budget

Electric Strike & Mag Lock (Typical Installation)



There are DIP switches on the bottom that change the configuration from Fail-Safe to Fail-Secure

Overview

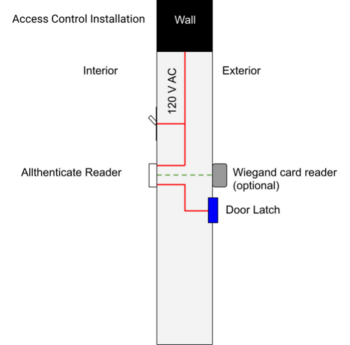
All-In is designed to fit inside a standard light switch electrical box and can be powered in various ways (DC, AC, or PoE). So if there is a power source near the door, it's only a matter of connecting a few wires.



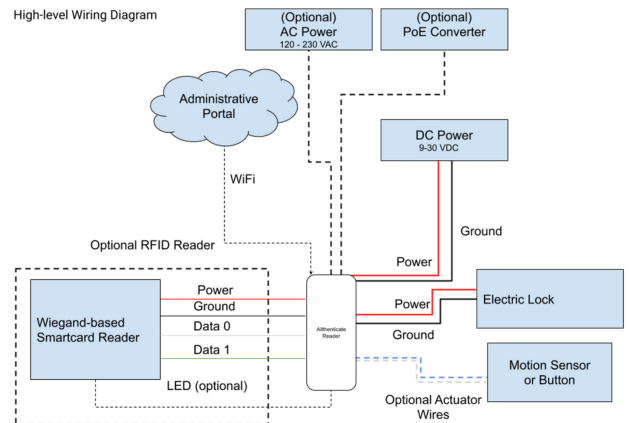
Installation using AC Power

(PoE and DC are the same general configuration)

All-In is designed to fit inside a standard light switch electrical box and can be powered in various ways (DC, AC, or PoE). So if there is a power source near the door, it's only a matter of connecting a few wires.



A more detailed diagram can be seen below with the various peripherals attached.



DIP Configurations

There are 3 distinct configurations, which are outlined below:
Electric Strike, Electromagnet, and co-existing with a pre-installed Electromagnet

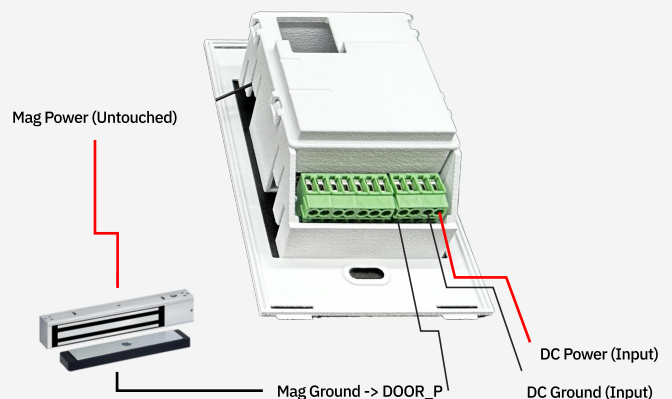


If the PoE or AC options are used for the power, the power output is going to be **800 mA @ 12 VDC**, otherwise the the power budget is the same as the input voltage, less our power draw of **130 mA @ 12 VDC**

You can use the dip switches on the bottom of the reader to change the configuration to work with different lock types

Configuration	Left Switch	Right Switch
Fail-Secure	UP/ON	UP/ON
Fail-Safe	DOWN/OFF	UP/ON
w/ Existing System	DOWN/OFF	DOWN/OFF

Mag Lock (with an uninterrupted existing system)



Note: you can always connect two systems to a fail-secure latch. This configuration is only needed for electromagnetic locks that require power to stay locked.

Installing with an existing smartcard reader

Our Allthenticate smart readers are compatible with any RFID reader that uses the Wiegand protocol and powered by 5V (more compatibility to come).

There are 4 main wires that are needed for this service to work: Power 5V (typically Red, Ground (typically black), Data 0 (typically green), and Data 1 (typically white). The other wires are used for controlling other peripherals like buzzers or LEDs.

- After determining the placement of the RFID reader and the Allthenticate reader, drill a hole through the wall with a large enough drill bit to feed the wires through.
 - It helps to drill in a direction toward the Allthenticate reader to help with running wires
- The middle 4 screw terminals are for Wiegand devices and should be connected as follows
 - Power: **RED** wire → PWR_OUT terminal on Allthenticate Smart Door Reader
 - Ground: **BLACK** wire → GND terminal on Allthenticate Smart Door Reader
 - Data 0: **GREEN** wire → D0 terminal on Allthenticate Smart Door Reader
 - Data 1: **WHITE** wire → D1 terminal on Allthenticate Smart Door Reader
 - Green LED: **ORANGE** wire → LED1 terminal on Allthenticate Smart Door Reader

Installing a motion sensor or exit button

For instructions on how to install various motion sensor models see the associated manufacturer guide

Note: *These must be externally powered*

- After consulting the user manual specs for your specific motion sensor find the 2 wires that actuate a relay (see diagram below)
 - These are typically screw terminals labeled ReLay with 3 terminals typically labeled C1, N01, and NC1
 - Depending on your desired configuration for the sensor, run a wire from the motion sensor C1 terminal to the pin labeled ALT1 on the screw terminal connector of the Allthenticate door reader
 - Next, run a wire from either the N01 or NC1 (depending on your configuration) of the motion sensor to the 3V3 pin on the Allthenticate reader
- By default this is hardware triggered and can be used for fire alarms etc. If you want, you we can change this to a software configurable input.

Features

- Unlock doors with your smartphone (Allthenticator app on both iOS and Android)
- Unlock doors with magic links
- Support remote locking and unlocking
- Flexible security requirements based on time of day and user
 - Presence-based unlocking
 - Simple tap to unlock
 - PIN or biometric
- Schedule lock and unlock times
- Uses existing WiFi network (no cable runs needed!)
- Get reliable Internet and power with Power over Ethernet (PoE)
- Incredibly sleek design that installs on the inside of your office
- Fits in a standard electrical rework box

Disclaimer

- Please note that the installation of our product may require electrical work. If you choose to install the product yourself, you do so at your own risk. We cannot be held liable for any damage, injury, or other harm that may result from improper installation or use of our product.
- If you are not a certified electrician, we strongly recommend that you seek the assistance of a professional to ensure that the installation is done correctly and safely.
- Any installation of electrical components carries risks, and improper installation could result in property damage, injury, or death. While our product is designed to be safe and easy to install, we cannot guarantee that it will be safe if installed by someone without the proper training and certification.
- Thank you for your understanding, and please feel free to contact us if you have any questions or concerns.



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