



## RFID Locking Device

### User Manual version 1.0

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#### FCC WARNING STATEMENT

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

NOTE: THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

## 1. OVERVIEW

The RFID Locking Device enables authorized access to capital equipment using PNP Robotics RFID cards. The device shall remain in a locked state while idle, prohibiting access to capital equipment, until reading a PNP Robotics RFID card with a sufficient number of remaining uses, i.e. an active card. Once reading an active card, the RFID Locking Device shall enter an unlocked state for a pre-specified period of time, enabling access to the capital equipment, and decrement the number of remaining uses. The RFID Locking Device shall re-engage the lock once usage has expired.



Fig. 1. RFID Locking Device

## 2. HARDWARE INSTALLATION

Align RFID Locking Device holes with your device's threaded hole pattern and secure using M4 socket head cap screws.

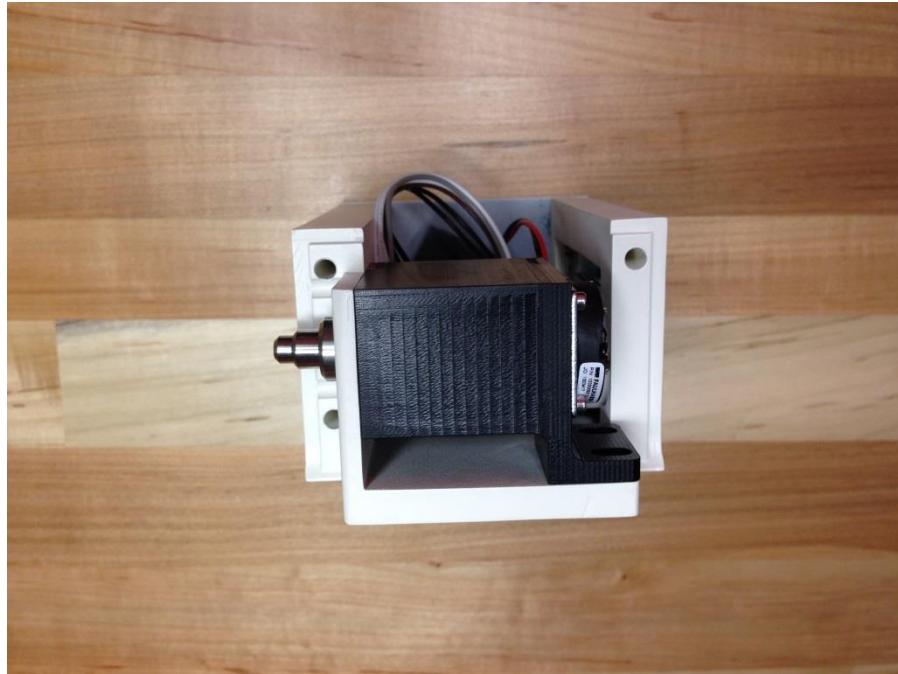


Fig. 6. RFID locking device hole pattern.

## 3. OPERATION

Place PNP Robotics RFID card with at least one available use onto RFID antenna. After reading the card, the LCD screen shall display the remaining number of uses and unlocking time in minutes, and move the locking pin to the unlocked position. Once remaining time has reached 20 minutes, the LCD screen shall turn on and display the remaining time in minutes. Once the countdown timer has expired, the device shall automatically move the locking pin to the locked position.

## 4. BATTERY REPLACEMENT

Upon detecting low battery power, the LCD screen shall display the message Low Battery. Please open front panel by removing the two M2 screws. Disconnect 2-pin battery connector from electronics board, and remove battery holder. Replace batteries with 4 AA Lithium polymer batteries, such as Energizer L91, or equivalent product.