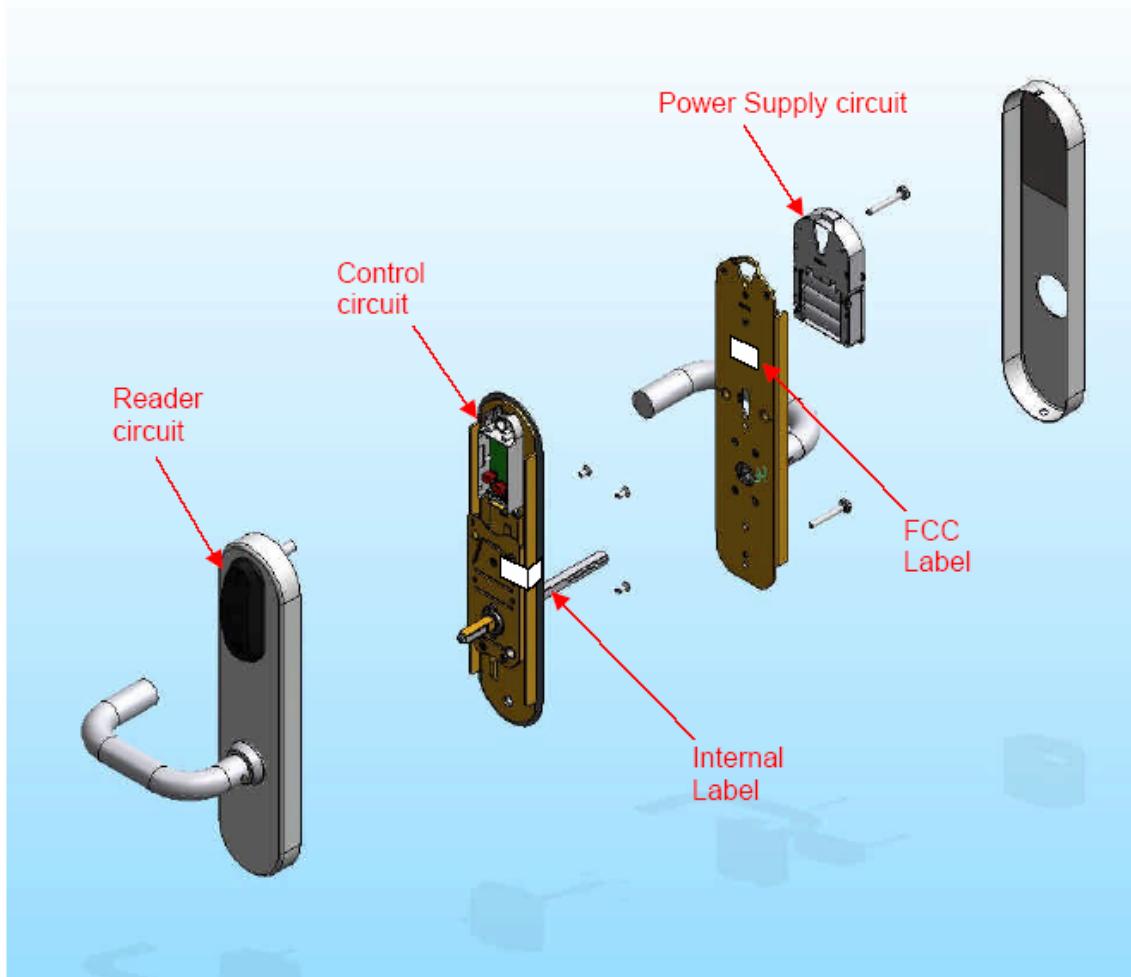


## 1. Product Description

Electronic lock A9XX... model, for use with proximity cards.

The lock is powered by three AA batteries. It has 3 circuits:

- Power Supply circuit: It's placed in the inside escutcheon, and incorporates the battery holder and the cable to connect it to the other circuits.
- Control circuit: It's placed in the outside escutcheon
- Reader circuit: It's placed on the outside escutcheon



The Reader circuit includes a Mifare Proximity Reading Module that works emitting a 13.56 MHz Frequency. We have added an antenna circuit with a track making a flat coil of 4 rounds and a capacitor to tune it into 13.56 MHz. The reading distance is only 2 inches (maximum) because the emission power is very low. This circuit detects by infrared when an object is near the circuit and tries to find a Mifare proximity card. If it finds one, then it sends the information of the card to the control circuit.

With this information the control circuit checks if the card is valid and if it has opening rights. If everything is OK the control circuit will trigger a continuous current motor to open the lock.