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The principle of description:

Supply for DC 12 V power , DC conversion chip into 5 V and 3.3 V, supply the main MCU chip, RF chips and other components, when card reader work in good conditions, record the right program, hardware devices to start working, RF circuit sends out energy, when the card in the RF energy range, to the main chip of data within a card, data can be transmitted weigand's way to the controller, which can read the card data.

Others status:

1. When reader is powered up, the Yellow LED will flicker for 5 seconds. The reader will beep once and the reader is in Ready mode.
2. Present the card. The Yellow LED will flicker once; buzzer will beep once.
3. When card is present and read by the reader, blue back lit will flash once; and buzzer will beep once as well. The card data will then transmit to the controller. After, whether the back lit of the reader will remain ON or Flash or change to Green or Red color, this shall depend on the Green and Red LED inputs