

Description of Operation

Upon pressing the activation button on the front of the DUT, the DUT interrogates the transponder by initiating a charge phase. This charge phase transmits 67 ms wide pulses with 100 ms period for 3 seconds. This generates an electromagnetic field around the antenna coil from which the transponder accumulates and stores energy on its internal charge capacitor. This energy is used to power the transponder in the read phase, where it sends back an id/control code after each charging pulse. The code is then validated against a known value and depending on match, the lock state is changed. The circuit then activates a motor drive which moves the locking mechanism from locked to unlocked, or from unlocked to locked.