

The transmitter for keyless entry is ready for operation as soon as a 3V battery is placed into the battery case.

The transmitter for keyless entry consists of a power supply, a transponder coil, a transmitter IC, an integrated antenna on the printed circuit board and a μ C with e. g. the transmit configuration.

"There is only one variant of transmitter, considering the frequency. The signal carrier frequency is 433.92 MHz and up to four buttons have the following functions: "Lock", "Unlock", "Remote Start ", and "PANIC". The functionality of each button corresponds to the respective button symbol on the key housing. If one of up to four buttons is activated, the transmitter for keyless entry sends across the integrated antenna on the printed circuit board a modulated, dependent on the activated button, protocol to the radio receiver."

Communication between Immobilizer circuit and Key Fob would be established by the transponder coil. The carrier frequency for the Immobilizer communication is 125 kHz. The Immobilizer transmits via the transponder coil, which would be activated by inserting the key into the ignition switch (Key In), an authentication (on the 125 kHz modulated protocol) for the transmitter for keyless entry and is waiting for a response by a modulation through attenuation of field.