

11-06-21
RF SOLUTIONS
Hornet operational description
US000470: HORNET-TX

The HORNET Key fob is a battery powered, manually activated, momentary push switch transmitter. When a push switch on the HORNET is pressed by a user, an input pin to the on-board MCU is pulled low and a wake up is sent to the MCU. When the MCU awakes and detects a switch activation it sends a transmission to an on-board Antenna. This transmission is in the form of a pre-defined data packet of length 68ms, it is sent to the antenna via a band pass filter. The frequency of the transmission sent out from the antenna is 433.92MHz this is controlled using an 18.08MHz crystal connected to the MCU, accuracy of the frequency transmitted is ensured using the band pass filter.