LPA DESIGN

Lab Partners Associates

To Whom it may Concern,

LPA Design attests that its PocketWizard products use RF signaling at specified frequencies, with details of the signaling bit patterns from which may be derived duty cycle, as specified below.

Type 1, 16 bits at 25 us each.
The worst-case data pattern will transmit RF for 14 of the 16 bit periods. This assumes that the 12-bit ID field is all "1" bits, plus a fixed 0101 start pattern. The maximum possible carrier duration in this mode is therefore (14 * 25) = 350 microseconds plus the fixed glitch pattern.

Type 2, 24 bits at 15 us each.
The worst-case data pattern for this mode will transmit RF for 21 of the 24 bit periods. This assumes that the 12-bit ID field is all "1" bits, our 2-bit command code is all "1", four zone bits are also "1", and our 2-bit parity field has a "0" and a "1". We arrive at the 21-bit value because the 2-bit parity field is guaranteed to have a "0" bit and the fixed start pattern of "0101" has two "0" bits. The maximum possible carrier duration in this mode is therefore (21 * 15) = 315 microseconds plus the fixed glitch pattern.

Type 3, 42 bits at 10 us each.
The worst-case data pattern for this mode is more difficult to ascertain, since this data is subject to whitening. There is a start pattern which is guaranteed to contain two "0" bits. Since it is theoretically possible that the data to be transmitted is the exact complement of the whitening data, it is possible for the remaining 38 bits to be all "1". This mode therefore has a maximum of 40 "1" bits, for a total carrier duration of (40 * 10) = 400 microseconds plus the fixed glitch pattern.

Signed,

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