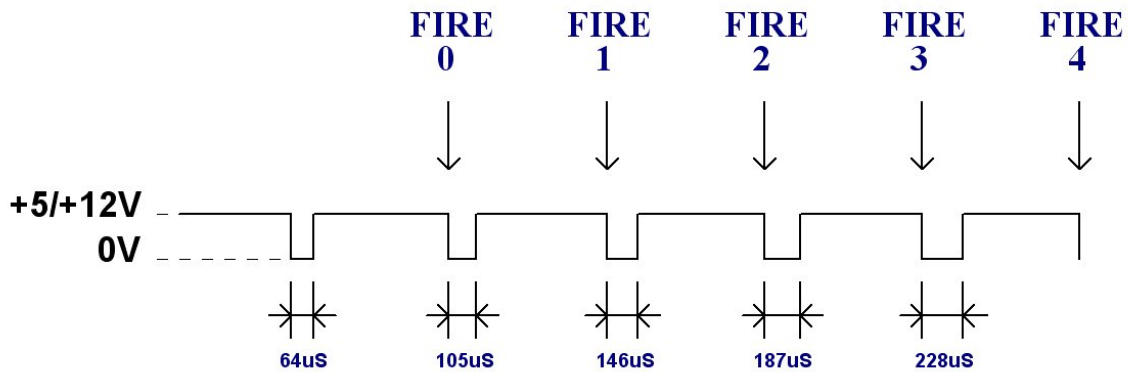




M&W Ignition Bus™

PULSE WIDTH TABLE			
Output #	Lower	Target	Upper
0	48	64	80
Null	81	<->	88
1	89	105	121
Null	122	<->	129
2	130	146	162
Null	163	<->	170
3	171	187	203
Null	204	<->	211
4	212	228	244
Null	245	<->	252
5	253	269	285
Null	286	<->	293
6	294	310	326
Null	327	<->	334
7	335	351	367
Null	368	<->	375
8	376	392	408
Null	409	<->	416
9	417	433	449
Null	450	<->	457
10	458	474	490
Null	491	<->	498
11	499	515	531
Null	532	<->	539
12	540	556	572



The M&W ignition bus™ protocol is a single wire time domain multiplex protocol for firing up to 12 ignition channels using a single ecu output.

- Available on all street and drag race systems with the exception of those designed for Mazda rotary engines.
- Pulse width tolerance of +/- 16uS with an 8uS guard period to prevent cross firing.
- Calibration occurs on the first pulse received after power up to reduce errors from ECU to CDI clock frequency variation and drift.
- Maximum ignition frequency of 1,500Hz
- Firing occurs on the signal falling edge and the next cylinder to fire is defined by the time period to the following rising edge
- Ignition channels may be fired in any sequence.
- Rev limiting is implemented by selecting cylinder '0' from the timing table.
- CDI multiplex input must be driven by a low impedance push-pull circuit from ground to +5V or +12V.
- CDI inputs are pulled up to +12V via 4k7 resistor.
- This system is not compatible with either the Motec single wire IEX™ protocol or Haltech single wire IMS™ protocol.