105.011 – PULSE COUNTER

CONNECTIONS

1. RED = 9VDC output for Hall Effect Sender only. DO NOT apply power to this wire.
2. BLACK = GROUND for 9VDC output AND Ground for Signal Input.
3. WHITE = Signal Input.

INSTRUCTIONS

1. Hall Effect Signal – Connect the three wires to the Hall Effect Sender.
2. Set signal strength to high (= Hall Effect).
3. OR
4. Inductive Sender – Connect Black wire to signal ground and White wire to signal output.
5. Set signal strength to low (= Inductive Sender).
6. THEN
7. Pulse counting must be performed with the vehicle moving.
8. Check that the counter accepts the signal and counts as expected.
9. Set the “hold/run” switch to hold.
10. Zero the display with the “reset” button.
11. Start the vehicle moving before the first mark .
12. Set the “hold/run” switch to “run” as you pass over the first mark.
13. Switch back to “hold” as you pass over the second mark.
14. Write down your reading and test again to verify. Average the results.
15. Use standard calculation formula to work out your “pulses per km”.
16. Test over the longest distance possible, if possible use 50 or 100 metres.

FORMULA

K (Imp/km) = count x 1000 / roll test distance.

SPECIFICATIONS

1. Dimensions: Approximately 135 x 70 x 25mm overall.
2. Voltage: 9 Volt DC Battery. BATTERY NOT SUPPLIED.
3. Input Range: Signal amplitude - LOW approx. 0.8VDC p-p, sine or square wave.
   - HIGH approx. 2.0VDC, sine or square wave.